

University of Groningen

The use of economic analysis for water quality improvement investments

Rodriguez, Diego Juan

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version

Publisher's PDF, also known as Version of record

Publication date:

2009

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Rodriguez, D. J. (2009). *The use of economic analysis for water quality improvement investments*. s.n.

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

References

- Abdalla, Charles W., Brian A. Roach, and Donald J. Epp. 1992. "Valuing Environmental Quality Changes Using Averting Expenditures: An Application to Groundwater Contamination." *Land Economics* 68(2): 163-169.
- Abrahams, Nii Adote, Bryan J. Hubbell, and Jeffrey L. Jordan. 2000. "Joint Production and Averting Expenditure Measures of Willingness to Pay: Do Water Expenditures Really Measure Avoidance Costs." *American Journal of Agricultural Economics* 82: 427-437.
- Adamowicz, Wiktor and J. R. DeShazo. 2006. "Frontiers in Stated Preferences Methods: An Introduction." *Environmental and Resource Economics* 34: 1-6.
- Adamowicz, Wiktor, Peter Boxall, Michael Williams, and Jordan Louviere. 1998. "Stated Preference Approaches for Measuring Passive Use Values: Choice Experiments and Contingent Valuation" *American Journal of Agricultural Economics* Vol. 80, pp. 64-75.
- Adamowicz, Wiktor, Jordan Louviere, and Michael Willams. 1994. "Combining Revealed and Stated Preference Methods for Valuing Environmental Amenities." *Journal of Environmental Economics and Management* 26: 271-92.
- Afriat, S. N. 1967. "The Construction of a Utility Function from Expenditure Data." *International Economic Review* Vol. 8, No. 1: 67-77.
- Agencia Nacional de Aguas do Brasil (ANA). 2005. *Panorama de qualidade das águas superficiais no Brasil. Estudo tecnico. Cadernos de Recursos Hidricos.* Brasilia, Brasil.
- Ajzen, Icek, and George L. Peterson. 1988. "Contingent Value Measurement: The Price of Everything and the Value of Nothing?" in *Amenity Resource Valuation: Integrating Economics with other Disciplines.* George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College: Ventura Publishing, Inc.
- Alberini, Anna and James R. Kahn (Editors). 2006. *Handbook of Contingent Valuation.* Massachusetts: Edward Elgar Publishing.
- Alberini, A., K. Boyle, and M. Welsh. 2003. "Analysis of Contingent Valuation Data with Multiple Bids: A Response Option Allowing Respondents to Express Uncertainty." *Journal of Environmental Economics and Management* 45 (1): 40-62.
- Alberini, Anna, Barbara Kanninen, and Richard Carson. August 1997. "Modeling Response Incentive Effects in Dichotomous Choice Contingent Valuation Data." *Land Economics* 73(3), pp. 309-24.
- Aldred, Jonathan. 1994. "Existence Value, Welfare and Altruism." *Environmental Values* 3: 381-402.
- Aldy, Joe and Alan Krupnick. 2009. "Introduction to the Frontiers of Environmental and Resource Economics." *Journal of Environmental Economics and Management* 57 -1-4.

- Allen, Derek H. 1991. *Economic Evaluation of Projects*. Butterworth-Heinemann.
- Altaf, Mir Anjum, and Jeffrey A. Hughes. 1994. "Measuring the Demand for Improved Urban Sanitation Services: Results of a Contingent Valuation Study in Ougadougou, Burkina Faso." *Urban Studies*, Vol. 31, No. 10: 1763-1776.
- Alvarez-Farizo and Nick Hanley. 2006. "Improving the Process of Valuing Non-Market Benefits: Combining Citizens Juries with Choice Modelling." *Land Economics* 82(3): 465-478.
- Amoako-Tuffour, Joe, and Roberto Martinez-Espineira. 2008. "Leisure and the Opportunity Cost of Travel Time in Recreation Demand Analysis: A Re-Examination." MPRA Paper No. 8573. Munich, Germany.
- American Public Health Association (APHA), American Waterworks Association (AWWA), and Federation of Sewage and Industrial Water Association (FSIWA). 1955. *Standard Methods for the Examination of Water, Sewage, and Industrial Wastes*. 10th Edition. New York: American Public Health Association.
- Amemiya, T. December 1981. "Qualitative Response Models: A Survey." *Journal of Economic Literature* Vol. XIX, pp. 1483-1536.
- Anderson, Jock R., Howard N. Barnum, and Pedro Belli. 2001. *Economic Analysis of Investment Operations: Analytical Tools and Practical Applications*. World Bank Institute. Development Studies Series. Washington, D.C.: The World Bank.
- An, Mark Yuying. 2000. "Semiparametric Estimation of Willingness to Pay Distributions." *American Journal of Agricultural Economics* Vol. 82, No. 3: 487-500.
- Ansell, Jake and Frank Wharton, eds. 1992. *Risk: Analysis, Assessment and Management*. New York: John Wiley & Sons.
- Araña, Jorge E. and Carmelo E. León. 2005. "Flexible Mixture Distribution Modeling of Dichotomous Choice Contingent Valuation with Heterogeneity." *Journal of Environmental Economics and Management* 50: 170-188.
- Ardila, Sergio, Ricardo Quiroga, and William J. Vaughan. 1998. "A Review of the Use of Contingent Valuation Methods in Project Analysis at the Inter American Development Bank." Unpublished paper to be presented at the National Science Foundation Workshop on Alternatives to Traditional CVM in Environmental Valuation, Vanderbilt University, Nashville Tennessee, October 15-16, 1998.
- Ardila, Sergio. 1993. "Guía para la utilización de modelos econométricos en aplicaciones del método de valoración contingente." División de Protección del Medio Ambiente Documento de Trabajo ENP-101. Washington, D.C.: Inter-American Development Bank.
- Arrow, Kenneth. J. 1951. *Social Choice and Individual Values*. New Haven/London: Yale University Press.

- Ashley, Richard, and Adrian Cashman. 2006. "The Impacts of Change on the Long-term Future Demand for Water Sector Infrastructure." Chapter 5 in *Infrastructure to 2030: Telecom, Land Transport, Water and Electricity*. Organisation for Economic Co-Operation and Development (OECD). Paris: OECD.
- Asian Development Bank (ADB). 2002. *Handbook for Integrating Risk Analysis in the Economic Analysis of Projects*. Manila: Asian Development Bank.
- Aven, Terje, and Jan Erik Vinnem. 2007. *A Risk Management Framework for Decision Support under Uncertainty: With Applications from the Offshore Petroleum Industry*. London: Springer.
- Ayeer, Miriam, H.D.Brunk, G.M. Ewing, and Edward Silverman. 1955. "An Empirical Distribution Function for Sampling with Incomplete Information." *Annals of Mathematical Statistics* Vol. 26: 641-647.
- Ayyub, Bilal M. 2003. *Risk Analysis in Engineering and Economics*. Chapman and Hall/CRC.
- Aylward, Bruce and Edward B. Barbier. 1992. "Valuing environmental functions in developing countries." *Biodiversity and Conservation* Vol. 1, No. 1 (March 1992), pp. 34-50.
- Azevedo, Christopher D., Joseph A. Herriges, and Catherine L. Kling. 2000. "Ask a Hypothetical Question, Get a Valuable Answer?" Center for Agricultural and Rural Development. Working paper 00-WP 260. Iowa State University.
- _____. 2003. "Combining Revealed and Stated Preferences: Consistency Tests and Their Interpretations." *American Journal of Agricultural Economics* 85(3): 525-537.
- Baiocchi, Giovanni. 2005. "Monte Carlo Methods in Environmental Economics." In *Applications of Simulation Methods in Environmental and Resource Economics*. Scarpa, Riccardo and Anna Alberini (Editors). Netherlands: Springer.
- Barbier, Edward B. 1994. "Valuing Environmental Functions: Tropical Wetlands." *Land Economics* 70(2): 155-73.
- Barton, David N. 2002. "The Transferability of Benefit Transfer: Contingent Valuation of Water Quality Improvements in Costa Rica." *Ecological Economics* Volume 42, Issues 1-2, (August 2002), pp. 147-164.
- Banzhaf, Spencer H. 2009. "Objective or Multi-Objective? Two Historically Competing Visions for Benefit-Cost Analysis." *Land Economics*. February 2009 • 85 (1): pp. 3-23.
- Baranzini, Andrea, Jose V. Ramirez, Schaerer, Caroline, and Philippe Thalmann. 2008. *Hedonic Methods in Housing Markets. Pricing Environmental Amenities and Segregation* Heidelberg: Springer.
- Banzhaf, Spencer H., Dallas Burtraw, David Evans and Alan Krupnick. 2006. "Valuation of Natural Resource Improvements in the Adirondacks." *Land Economics* 82(3): 445-464.

- Barton, David N. 1999. "The Quick, the Cheap and the Dirty: Benefit Transfer Approaches to the Non-market Valuation of Coastal Water Quality in Costa Rica." Doctor Scientiarum Theses 1999: 34. Department of Economics and Social Sciences. Agricultural University of Norway.
- Bartram, Jamie, Lorna Fewtrell and Thor-Axel Stenstrom. 2001. "Harmonised assessment of risk and risk management for water related infectious disease: an overview." In *Water Quality: Guidelines, Standards and Health* Lorna Fewtrell and Jamie Bartram (Editors). London, UK: IWA Publishing.
- Bate, Roger. 1994. "Pick a Number: A Critique of Contingent Valuation Methodology and Its Application in Public Policy." Competitive Enterprise Institute, Environmental Studies Program. Washington, D.C.
- Bateman, Ian J., Diane Burgess, W. George Hutchinson, and David I. Matthews. 2007. "Learning design contingent valuation (LDCV): NOAA guidelines, preference learning and coherent arbitrariness." *Journal of Environmental Economics and Management* Vol 55, Issues 2: 127-141.
- Bateman, Ian J., Brett H. Day, Stavros Georgiou, Iain Lake. 2006. "The aggregation of environmental benefit values: Welfare measures, distance decay and total WTP?" *Ecological Economics* 60: 450-460.
- Bateman, Ian J., Richard T. Carson, Brett Day, Michael Hanemann, Nick Hanley, Tannis Hett, Michael Jones-Lee, Graham Loomes, Susana Mourato, Ece Ozdemiroglu, David W. Pearce, Robert Sugden, and John Swanson. 2003. *Economic Valuation with Stated Preference Techniques* Cheltenham, UK: Edward Elgar Publishing Limited.
- Bazon, Coleman and Kent Smetters. 2001. "Discounting in the Long Term." *Loyola of Los Angeles Law Review* Vol. 35: 277-291.
- Bedford, Tim, and Roger Crooke. 2001. *Probabilistic Risk Analysis: Foundations and Methods*. Cambridge: Cambridge University Press.
- Begg, Steve H., Reidar B. Bratvold, and John M. Campbell. 2003. "Decision-Making under Uncertainty." Paper presented at the 7th International Symposium on Reservoir Simulation. Braden, Germany.
- Beierle, Thomas C. 2002. "The Quality of Stakeholder Based Decisions." *Risk Analysis*. Vol. 22, No. 4, (August 2002), pp. 739.
- Belli, Pedro, Jock Anderson, Howard Barnum, John Dixon and Jee-Peng Tan. 1997. "Handbook of Economic Analysis of Investment Operations." Operations Policy Department. Learning and Leadership Center. Washington, D.C.: The World Bank.
- Belluzo, Walter, Jr. 2004a. "Semiparametric Approaches to Welfare Evaluations in Binary Response Models." *Journal of Business & Economics Statistics* 22(3): 322-330.
- _____. 2004b. "Valuing Water Resources in Development Countries: A Semiparametric Approach to Valuation Methods." Paper presented at the Econometric Society 2004 Latin American Meetings.

- Belton, Valerie and Theodor J. Stewart. 2002. *Multiple Criteria Decision Analysis: An Integrated Approach*. Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Bengoechea-Morancho, Aurelia, Ana Ma. Fuertes-Eugenio, and Salvador del Saz-Salazar. 2005. "A Comparison of Empirical Models Used to Infer the Willingness to Pay in Contingent Valuation." *Empirical Economics* 30: 235-244.
- Bennett, Jeff, Mark Morrison and Russell Blamey. 2002. "Testing the Validity of Responses to Contingent Valuation Questioning." *Australian Journal of Agricultural and Resource Economics* Volume 42, Issue 2: 131-148.
- _____. (Editors). 2001. *The Choice Modeling Approach to Environmental Valuation*. Northampton, MA: Edward Elgar Publishing.
- Berg, Nathan. 2002. "Behavioral Cost-Benefit Economics: Toward a New Normative Approach to Policy." *Political Economy Working Paper 14/02*. School of Social Sciences, The University of Texas.
- Bergstrom, John C., Kevin J. Boyle, and Gregory L. Poe (Editors). 2001. *The Economic Value of Water Quality* Cheltenham, UK: Edward Elgar Publishing Limited.
- Biller, Dan, Karoline Rogge and Giovanna Ruta. 2006. "The Use of Contingent Valuation in Developing Countries: A Quantitative Analysis." In *Handbook on Contingent Valuation*. Alberini, Anna and James Kahn (Editors). Cheltenham, UK: Edward Elgar Publishing Limited.
- Bidone, E. D., J. E. L. Maddock, and Z. J. Castilhos. 2002. "A Practical Method to Internalize Environmental Impacts into Cost-Benefit Analysis." *Environmental Practice*. Vol. 4, pp. 31-35.
- Binkley, Clark S., and W. Michael Hanemann. 1978. *The Recreation Benefits of Water Quality Improvement: Analysis of Day Trips in an Urban Setting*. U.S. Environmental Protection Agency, Washington, D.C.
- Birol, Ekin, Andreas Knotoleon, and Melinda Smale. 2006. "Combining Revealed and Stated Preference Methods to Assess the Private Value of Agrobiodiversity in Hungarian Home Gardens." *Environment and Production Technology Division, EP Discussion Paper 156*. International Food Policy Research Institute. Washington, D.C.
- Birol, Ekin, Phoebe Koundouri, and Yiannis Kountouris. 2006. "Using Economic Valuation Techniques to Inform Water Resources Management: A Survey and Critical Appraisal of Available Techniques and an Application." *Science of the Total Environment* 365: 105-122.
- _____. 2008. "Using Economic Valuation Techniques to Inform Water Resources Management in the Southern European, Mediterranean and Developing Countries: A Survey and Critical Appraisal of Available Techniques." In *Coping with Water Deficiency* P. Koundouri (Editor). Springer.

- Bishop, Richard C., Patricia A. Champ, and Daniel J. Mullarkey. 1995. "Contingent Valuation." in *The Handbook of Environmental Economics*. Daniel W. Bromley, ed. Blackwell Handbooks in Economics.
- Bishop, Richard C., and Thomas A. Heberlein. 1979. "Measuring Values of Extramarket Goods: Are Indirect Measures Biased?" *American Journal of Agricultural Economics* 61: 926-30.
- _____. 1990. "The Contingent Valuation Method." In *Economic Valuation of Natural Resources: Issues, Theory, and Applications* Johnson, Rebecca L., and Gary V. Johnson (Editors). Boulder: Westview Press.
- Biswas, Asit K., Cecilia Tortajada, Benedito Braga and Diego J. Rodriguez (Editors). 2006. *Water Quality Management in the Americas*. The Netherlands: Springer.
- Blamey, R. K., J. W. Bennett, and M. D. Morrison. February 1999. "Yea-Saying in Contingent Valuation Surveys." *Land Economics* 754 (1): 126-141.
- Blomquist, Glenn C. 2003. "Self Protection and Averting Behavior, Values of Statistical Lives, and Benefit Cost Analysis of Environmental Policy." Working Paper #03-02. Working Paper Series. National Center for Environmental Economics. Washington, D.C.: United States Environmental Protection Agency.
- Blow, Laura, Martin Browning, and Ian Crawford. 2006. "Revealed Preference Analysis of Characteristics Models." Department of Economics. Discussion Paper Series, Number 282. England: University of Oxford.
- Blundell, Richard. 2005. "How Revealing is Revealed Preference?" *European Economic Journal* 3: 211-235.
- Boardman, Anthony E., David H. Greenberg, Aidan R. Vining, and David L. Weimer. 1996. *Cost-Benefit Analysis: Concepts and Practice*. New Jersey: Prentice-Hall, Inc.
- Bockstael, Nancy, and Kenneth E. McConnell. 2007. *Environmental and Resource Valuation with Revealed Preferences: A Theoretical Guide to Empirical Models (The Economics of Non-Market Goods and Resources)* New York: Springer.
- Bockstael, Nancy. 1995. "Travel Cost Method." *Handbook of Environmental Economics* Bromley, Daniel W (Editor). Cambridge, Massachusetts: Blackwell Publishers Inc.
- Bockstael, Nancy, Kenneth McConnell, and Ivar Strand. 1991. "Recreation" In *Measuring the Demand for Environmental Quality* John Braden and Charles D. Kolstad (Editors). North Holland.
- Bockstael, Nancy, Ivar E. Strand, and Michael W. Hanemann. 1987. "Time and the Recreational Demand Model." *American Journal of Agricultural Economics* 69(2): 293-302.
- _____. 1992. "Time and the Recreational Demand Model." *Environmental Economics: A Reader* Anil Markandya and Julie Richardson (Editors). New York: St. Martin's Press.

- Bockstael, Nancy, Michael Hanemann, and Catherine L. Kling. "Modeling Recreational Demand in a Multiple Site Framework." *Water Resources Research* 23: 951-960.
- Bockstael, Nancy, Michael Hanemann, and Ivar Strand. 1983. *Measuring the Benefits of Water Quality Improvement Using Recreation Demand Models Volume II of Benefit Analysis Using Indirect or Imputed Market Methods*. United States Environmental Protection Agency. Office of Policy and Resource Management. Office of Policy Analysis EPA Contract No. CR-811043-01-0. Washington, D.C.
- Bohara, Alok K., Joe Kerkvliet, and Robert P. Berrens. 2001. "Addressing Negative Willingness to Pay in Dichotomous Choice Contingent Valuation." *Environmental and Resource Economics* 20: 173-195.
- Bohm, Peter. 1994. "CVM Spells Responses to Hypothetical Questions." *Natural Resources Journal* 34(1): 37-50.
- Bojö Jan, Karl-Göran Mäler, and Lena Unemo. 1992. *Environment and Development: An Economic Approach* Dordrecht, The Netherlands: Kluwer.
- Boman, Mattias, Göran Bostedt, and Bengt Kriström. 1999. "Obtaining Welfare Bounds in Discrete-Response Valuation Studies: A Non-Parametric Approach." *Land Economics* 75(2), pp. 284-294.
- Booth, William E., Parul C. Carubia, and Francis C. Lutz. 1976. *A Methodology for Comparative Evaluation of Water Quality Indices*. Council on Environmental Quality, Washington, D.C.
- Botkin, Daniel B., and Edward A. Keller. 2007. *Environmental Science: Earth as a Living Planet*, 6th Edition. Wiley.
- Bowker, J.M., and John R. Stoll. 1981. "Toward a Total Value for Whooping Cranes Using Dichotomous Choice Nonmarket Methods." *American Journal of Agricultural Economics* 70: 372-381.
- Boyle, Kevin J. and Richard C. Bishop. 1988. "Welfare Measurements Using Contingent Valuation: A Comparison of Techniques." *American Journal of Agricultural Economics* 70: 20-28.
- Boyle, Kevin J. and John C. Bergstrom. 1992. "Benefit Transfer Studies: Myths, Pragmatism, and Idealism." *Water Resources Research* 28(3): 657-63.
- Boyle, Kevin J. 1990. "Dichotomous-Choice, Contingent-Valuation Questions: Functional Form is Important." *Northeastern Journal of Agricultural and Resource Economics* Volume 19, Number 2: 125-131.
- _____. 2003. "Contingent Valuation in Practice." In *A Primer on Non-market Valuation* Patricia A. Champ, Kevin J. Boyle and Thomas C. Brown (Editors). Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Boyle, Kevin J., F. Reed Johnson, and Daniel W. McCollum. 1997. "Anchoring and Adjustment in Single Bounded, Contingent Valuation Questions." *American Journal of Agricultural Economics* 79, pp. 1495-1500.

- Braga, Benedito, Monica Porto, and Luciano Meneses. 2006. "Integrated Water Quality Management in Brazil." In *Water Quality Management in the Americas*. Biswas, Asit K., Cecilia Tortajada, Benedito Braga, and Diego J. Rodriguez (Editors). The Netherlands: Springer.
- Brajer, Victor and Rondal G. Cummings. 1988. "Integrating Social Science Research in the Contingent Valuation Method: An Overview." In *Amenity Resource Valuation: Integrating Economics with other Disciplines*. George L. Peterson, B. L. Driver, and Robin Gregory, eds. State College: Ventura Publishing.
- Brazer, John, Julie Ratcliffe, Joshua A. Salomon, and Aky Tsuchiya. 2007. *Measuring and Valuing Health Benefits for Economic Evaluation*. Oxford, UK: Oxford University Press.
- Breen, Richard. 1996. *Regression Models: Censored, Sample Selected, or Truncated Data*. Series Number 07 111. Series: Quantitative Applications in the Social Sciences. Thousand Oaks, California: Sage Publications, Inc.
- Brent, Robert J. 1996. *Applied Cost-Benefit Analysis*. Chetlham, England: Edward Elgar.
- _____. 1998. *Cost Benefit Analysis for Developing Countries*. Chetlham, England: Edward Elgar.
- Briscoe, John, Paulo Furtado de Castro, Charles Griffin, James North, and Orjan Oslen. 1990. "Toward Equitable and Sustainable Rural Water Supplies: A Contingent Valuation Study in Brazil." *World Bank Economic Review* 4(2): 115-134.
- Brookshire, David S., Larry S. Eubanks, and Alan Randall. 1983. "Estimating Option Prices and Existence Values for Wildlife Resources." *Land Economics* 59: 1-15.
- Brookshire, David S. and Helen R. Neill. 1992. "Benefit Transfers: Conceptual and Empirical Issues." *Water Resources Research* 28(3): 651-55.
- Brouwer, Roy and David Pearce (Editors). 2005. *Cost-Benefit Analysis and Water Resources Management*. Cheltenham, UK: Edward Elgar.
- Brouwer, R. and R. Bronda. 2005. "The Costs and Benefits of a Revised European Bathing Water Directive in The Netherlands." In *Cost-Benefit Analysis and Water Resources Management*. Brouwer, Roy and David Pearce (Editors). Cheltenham, UK: Edward Elgar.
- Brown, Donald J. and Caterina Calsamiglia. 2005. "The Nonparametric Approach to Applied Welfare Analysis." Cowles Foundation Discussion Paper No. 1507, April 2005. New Haven, Connecticut: Cowles Foundation for Research in Economics, Yale University.
- Brown, L.C., and T. O. Barnwell, Jr. 1987. *The Enhanced Stream Water Quality Models QUAL2E and QUAL2E-UNCAS: Documentation and User Manual*. EPA-600/3-87/007. Athens, GA: United States Environmental Protection Agency.

- Brown, Thomas C., and George L. Peterson. 2003. "Multiple Good Valuation." In *A Primer on Nonmarket Valuation* Patricia A. Champ, Kevin J. Boyle and Thomas C. Brown (Editors). Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Bryne, John. 1987. "Policy Analysis and the Administrative State: The Political Economy of Cost-Benefit Analysis." In *Confronting Values in Policy Analysis: The Politics of Criteria*. Frank Fischer and John Forester (Editors). Newbury Park: Sage Publications.
- Bowes, Nicolaas W., Sr., and Robert Schneider. 1979. "Procedures in Estimating Benefits of Water Quality Change." *American Journal of Agricultural Economics* 61(3): 535-539.
- Buckland, S. T., D. C. Macmillan, E. I. Duff, and N. Hanley. 1999. "Estimating Mean Willingness to Pay for Dichotomous Choice Contingent Valuation Studies." *The Statistician* 48, Part 1: 109-124.
- Bureau of Transport and Regional Economics. 2005. "Risk in Cost-Benefit Analysis." Report 110. Commonwealth of Australia.
- Cameron, Trudy Ann and Michelle D. James. 1987. "Efficient Estimation Method for "Closed-Ended" Contingent Valuation Surveys." *The Review of Economics and Statistics* Vol. 69, No. 2: 269-276.
- Cameron, Trudy Ann. 1988. "A New Paradigm for Valuing Non-Market Goods Using Referendum Data: Maximum Likelihood Estimation by Censored Logistic Regression." *Journal of Environmental Economics and Management* 15, pp. 355-379.
- _____. 1992. "Combining Contingent Valuation and Travel Cost Data for the Valuation of Nonmarket Goods." *Land Economics* 68(3): 302-317.
- Campagnoli, Fernando. 2006. "The Production of the Sediment of the South America Continent: Propose of Mapping of the Erosion Rates Based on Geological and Geomorphological Aspects." *Revista Brasileira de Geomorfologia* Ano 7, No 1. Brasil.
- Campagnoli, Fernando, Wougran Soares Galvao, Junior Azevedo, A. L. Souza, and L. R. Vida. 2004. "Mapa de producao de sedimentos do Brasil." In *VI Encontro Nacional de Engenharia de Sedimentos*. Vitoria, Brasil.
- Campbell, Harry F. and Richard P. C. Brown. 2003a. "A Multiple Account Framework for Cost-Benefit Analysis." Discussion Paper No. 328. The School of Economics. University of Queensland. Brisbane: Australia.
- _____. 2003b. *Benefit-Cost Analysis: Financial and Economic Appraisal Using Spreadsheets*. Cambridge, UK: Cambridge University Press.
- Carson, Richard T., Robert C. Mitchell, Michael Hanemann, Raymond J. Kopp, Stanley Presser, and Paul A. Ruud. 2003. "Contingent Valuation and Lost Passive Use: Damages from the Exxon Valdez Oil Spill." *Environmental and Resource Economics* 25:257-286.

- Carson, Richard T., W. Michael Hanemann, Raymond J. Kopp, Jon A. Krosnick, Robert C. Mitchell, Stanley Presser, Paul A. Ruud, and V. Kerry Smith. 1994. "Prospective Interim Lost Use Value Due to DDT and PCB Contamination in the Southern California Bight." National Oceanographic and Atmospheric Administration (NOAA), Contract No. 50-DGNC-1-00007. Washington, D.C.
- Carson, Richard T., W. Michael Hanemann, Raymond J. Kopp, Jon A. Krosnick, Robert C. Mitchell, Stanley Presser, Paul A. Ruud, and V. Kerry Smith, with Michael Conaway and Kerry Martin. 1995. "Referendum Design and Contingent Valuation: The NOAA Panel's No Vote Recommendation." Discussion Paper 96 05. Washington, D.C.: Resources for the Future.
- _____. 1996. "Was the NOAA Panel Correct about Contingent Valuation?" Discussion Paper 96 20. Washington, D.C.: Resources for the Future.
- Carson, Richard. 1991. "Constructed Markets." Chapter 5 in *Measuring the Demand for Environmental Quality* by John Braden and Charles D. Kolstad (Editors). North Holland: Elsevier Science Publishers B.V.
- _____. 1995. "Contingent Valuation Surveys and Tests of Insensitivity to Scope." Working Paper 95-05. Department of Economics Working Paper Series. University of California at San Diego.
- _____. 1997. "Contingent Valuation: Theoretical Advances and Empirical Tests since the NOAA Panel." *American Journal of Agricultural Economics* 79, pp. 1501-1507.
- _____. (Editor) 2007. *The Stated Preference Approach to Environmental Valuation*, Volumes I, II, and III Ashgate.
- _____. Forthcoming September 2009. *Contingent Valuation: A Comprehensive Bibliography and History*. Edward Elgar Publishing.
- Carson, Richard T., and Robert Cameron Mitchell. 1993. "The Value of Clean Water: The Public's Willingness to Pay for Boatable, Fishable, and Swimmable Quality Water." *Water Resources Research* 29: 2445-54.
- _____. 1995. "Sequencing and Nesting in Contingent Valuation Surveys." *Journal of Environmental Economics and Management* 28: 155-73.
- Carson, Richard T., Nicholas E. Flores, and Norman F. Meade. 2001. "Contingent Valuation: Controversies and Evidence." *Environmental and Resource Economics*. 19: 173-210.
- Casey, James F., Tomislav Vukina, and Leon E. Danielson. 1995. "The Economic Value of Hiking: Further Considerations of Opportunity Cost of Time in Recreational Demand Models." *Journal of Agricultural and Applied Economics* 27(2): 658-668.
- Cattin, Philippe, and David R. Wittink. 1982. "Commercial Use of Conjoint Analysis: A Survey." *Journal of Marketing* 46: 44-53.

- Cavallo, Eduardo and Christian Daude. 2008. "Public Investment in Developing Countries: A Blessing or a Curse?" Research Department of the Inter-American Development Bank, Working Paper #648. Washington, D.C.
- Cesario, Frank J. 1976. "Value of Time in Recreation Benefit Studies." *Land Economics* 52(1): 32-41.
- Champ, Patricia A., and Michael P. Welsh. 2007. "Survey Methodologies for Stated Choice Studies." In *Valuing Environmental Amenities Using Stated Choice Studies*. Barbara J. Kanninen (Editor): Dordrecht: Springer.
- Champ, Patricia A., K. J. Boyle, and Thomas C. Brown (Editors). 2003. *A Primer on Nonmarket Valuation*. Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Chapman, Chris and Stephen Ward. 2000. "Estimation and evaluation of uncertainty: a minimalist first pass approach." *International Journal of Project Management* Vol. 18, pp. 369-383.
- _____. 2002. *Managing Project Risk and Uncertainty: A Constructively Simple Approach to Decision Making*. John Wiley & Sons.
- Chen, H. and Allan Randall. 1997. "Semi-nonparametric Estimation of Binary Response Models with an Application to Natural Resource Valuation." *Journal of Econometrics* 76: 323-340.
- Chen, Heng Z., and Stephen R. Cosslett. August 1998. "Environmental Quality Preference and Benefit Estimation in Multinomial Probit Models: A Simulation Approach." *American Journal of Agricultural Economics* 80, pp. 512-520.
- Chichilnisky, Graciela. 1997. "The Costs and Benefits of Benefit-Cost Analysis." *Environment and Development Economics* 2 (2), pp. 202-06.
- Chicken, John C. 1994. *Managing Risks and Decisions in Major Projects*. London: Chapman & Hall.
- Choe, Keyongae, Dale Whittington, and Donald T. Lauria. 1996. "The Economic Benefits of Surface Water Quality Improvements in Developing Countries: A Case Study of Davao, Philippines." *Land Economics* 72(4): 519-537.
- Ciriacy-Wantrup, S.V. 1947. "Capital Returns from Soil-Conservation Practices." *Journal of Farm Economics* 29: 1188-1190.
- Clarke, Roland and Allan Low. September 1993. "Risk analysis in project planning: a simple spreadsheet application using Monte-Carlo techniques." *Project Appraisal* Vol. 8 No. 3, pp. 141-146.
- Clawson, Marion and Jack Knetsch. 1966. *Economics of Outdoor Recreation* Washington, D.C.: Resources for the Future.
- Clawson, Marion. 1959. *Methods for Measuring the Demand for and Value of Outdoor Recreation* Washington, D.C.: Resources for the Future.
- Clinch, Peter J., and Anthony Murphy. 2001. "Modeling Winners and Losers in Contingent Valuation of Public Goods: Appropriate Welfare Measures and Econometric Analysis." *The Economic Journal* 111: 420-443.

- Cohn, Elchanan. 2003. "Benefit-Cost Analysis: A Pedagogical Note." *Public Finance Review* Vol. 31, No. 5, pp. 534-549.
- Cohon, Jared L. 2004. *Multiobjective Programming and Planning*. Mineola, NY: Dover Publications.
- Comprehensive Assessment of Water Management in Agriculture (CAWMA). 2007. *Water for Food, Water for Life: A Comprehensive Assessment of Water Management in Agriculture*. London: Earthscan and Colombo: International Water Management Institute.
- Conrow, Edmund H. 2003. *Effective Risk Management: Some Keys to Success*, Reston, Va.: American Institute of Aeronautics and Astronautics.
- Cooper, Dale. F. 1987. *Risk Analysis for Large Projects: Models, Methods, and Cases*. New York: Wiley.
- Coote, Anna and Jo Lenaghan. 1997. *Citizen Juries: Theory into Practice*. London: Institute for Public Policy Research.
- Clevelario Junior, Judicael, Valdir Never, Paula Terezina Tudesco Macedo de Oliveira, Valeria Grace Sosta, Pedro Ammendola, Roberval M. Rocha, and Julio Jorge Gonçalves da Costa. 2005. *Water Statistics in Brazil: An Overview*. Paper presented at the International Work Session on Water Statistics. June 20-22, 2005. Vienna, Austria.
- Cooper, Joseph C. February 1994. "A Comparison of Approaches to Calculating Confidence Intervals for Benefit Measures from Dichotomous Choice Contingent Valuation Surveys." *Land Economics* 70 (1): 111-122.
- _____. 2000. "Nonparametric and Semi-Nonparametric Recreational Demand Analysis." *American Journal of Agricultural Economics* 82: 451-462.
- _____. 2002. "Flexible Functional Form Estimation of Willingness to Pay Using Dichotomous Choice Data." *Journal of Environmental Economics and Management* 43: 267-279.
- Corrigan, Jay R., Catherine L. Kling, and Jinhua Zhao. 2003. "The Dynamic Formation of Willingness to Pay: An Empirical Specification and Test." Center for Agricultural and Rural Development. Working Paper 03-WP327. Iowa State University.
- _____. 2008. "Willingness to Pay and the Cost of Commitment: An Empirical Specification Test." *Environmental and Resource Economics* 40: 285-298.
- Cosslett, Stephen R. 1983. "Distribution-Free Maximum Likelihood Estimator of Binary Choice Model." *Econometrica* Vol. 51, No. 3: 765-782.
- Creel, Michael. 1998. "A Note on Consistent Estimation of Mean WTP Using a Misspecified Logit Contingent Valuation Model." *Journal of Environmental Economics and Management* 35, pp. 277-284.
- Creel, Michael, and John Loomis. 1997. "Semi-Nonparametric Distribution-Free Dichotomous Choice Contingent Valuation." *Journal of Environmental Economics and Management* 32: 341-358.

- Crocker, Thomas D., and Jason F. Shogren. 1991. "Ex ante Valuation of Atmospheric Visibility." *Applied Economics* 23, pp. 143-51.
- Crooker, John and Catherine L. Kling. 1998. "Nonparametric Bounds on Welfare Measures: A New Tool for Nonmarket Valuation." CARD Working Paper 99-WP 208. Iowa State University.
- Crooker, John R. and Joseph A. Herriges. 2000. "Parametric and Semi-Parametric Estimation of Willingness-to-Pay in the Dichotomous Choice Contingent Valuation Framework." Unpublished.
- Cropper, Maureen. 2000. "Has Economic Research Answered the Needs of Environmental Policy?" *Journal of Environmental Economics and Management* 39 (3), pp. 328-49.
- Cropper, Maureen, and Myrick Freeman. 1991. "Estimating Individuals' Values for Health Benefits." In *Measuring the Demand for Environmental Quality*. John B. Braden and Charles D. Kolstad (Editors). Amsterdam: North Holland.
- Cropper, Maureen, and Anna Alberini. 1998. "Contingent Valuation". In *The New Palgrave Dictionary of Economics and the Law* Newman, P. (Editor). New York, USA: Stockton Press, and London: Macmillan Reference.
- Cummings, Ronald G., and Glenn W. Harrison. 1995. "The Measurement and Decomposition of Nonuse Values: A Critical Review." *Environmental and Resource Economics* 5: 225-47.
- Dasgupta, Partha and Eric Maskin. 2004. "Uncertainty and Hyperbolic Discounting." *American Economic Review* Vol. 95(4): 1290-1299.
- Dasgupta, Susmita, Kirk Hamilton, Stefano Piagola, and David Wheeler. 2008. "Environmental Economics at the World Bank." *Review of Environmental Economics and Policy* Volume 2, Issue 1, winter 2008: 4-25.
- Davidson, Paul F, Gerard Adams, and Joseph Seneca. 1966. "The Social Value of Water Recreational Facilities Resulting from an Improvement in Water Quality: The Delaware Estuary." In *Water Research* A. V. Kneese and S. C. Smith (Editors). Washington, D.C.: Resources for the Future.
- Davies, Rob. 1997. "Environmental Regulation, Benefit-Cost Analysis, and Policy Environment in Less-Developed Countries." *European Resource Economics*, 2 (2), pp. 206-10.
- Day, Brett. 2007. "Distribution-Free Estimation with Interval-Censored Contingent Valuation Data: Troubles with Turnbull?" *Environmental and Resource Economics* 37: 777-795.
- Dornbusch, David M. and Company, Inc. 1975. *The Impact of Water Quality Improvements on Residential Property Prices*. Report Prepared for the National Commission on Water Quality, San Francisco.
- Decisioneering, Inc. 1998. *Crystal Ball PRO. User's Manual*. Denver: Decisioneering, Inc.

- Del Saz-Salazar, Salvador, and Leandro Garcia-Menendez. 1999. "Willingness to Pay for Environmental Quality: Evidence from the Spike Model and from a Non Parametric Approach." Working Paper 99/01. Departamento de Economia Aplicada II. Valencia: Universidad de Valencia.
- Department for International Development (DFID). 2001. *Addressing the Water Crisis: Healthier and More Productive Lives for Poor People*. London: Department for International Development.
- Desvousges, William H., F. Reed Johnson, and H. Spencer Banzhaf. 1998. *Environmental Policy Analysis with Limited Information: Principles and Applications of the Transfer Method*. Edward Elgar Publishing.
- Diamond, Peter A. 1996. "Testing the Internal Consistency of Contingent Valuation Surveys." *Journal of Environmental Economics and Management* Volume 30, Issue 3: 337-347.
- Diamond, Peter A. and Jerry A. Hausman. 1994. "Contingent Valuation: Is Some Number Better than No Number?" *Journal of Economic Perspectives* Volume 8, Number 4, pp. 45-64.
- Dickie, Mark. 2003. "Defensive Behavior and Damage Cost Methods." In *A Primer on Nonmarket Valuation* Patricia A. Champ, Kevin J. Boyle and Thomas C. Brown (Editors). Dordrecht, The Netherlands: Kluwer Academic Publishers).
- Diewert, E. and C. Parkan. 1978. "Test for Consistency of Consumer Data and Nonparametric Index Numbers." Working Paper 78-27. University of British Columbia.
- Dinwiddie, Caroline, and Frances Teal. 1996. *Principles of Cost-Benefit Analysis for Developing Countries*. Cambridge, England: Cambridge University Press.
- Dorfman, Robert, Henry D. Jacoby, and Harold A. Thomas Jr. (Editors). 1972. *Models for Managing Regional Water Quality*. Cambridge, MA: Harvard University Press.
- Douglas, Aaron J., and Richard L. Johnson. 2004. "The Travel Cost Method and the Economic Value of Leisure Time." *International Journal of Tourism Research* Volume 6, Issue 5: 365-374.
- Downing, M., and T. Ozuna, Jr. 1994. "Testing the Reliability of the Benefit Function Transfer Approach." Environmental Sciences Division. Oak Ridge, TN: Oak Ridge National Laboratory.
- Duffield, John W., and David A. Patterson. 1991. "Inference and Optimal Design for a Welfare Measure Dichotomous Choice Contingent Valuation." *Land Economics* 67(2): 225-239.
- Mara, Duncan. 1996. *Low-Cost Urban Sanitation*. Chichester: John Wiley & Sons.
- Easter, William and Naomi Zeitouni (Editors). 2006. *The Economics of Water Quality* Ashgate Publishing.

- Easterbrook, Gregg. 1994. "Forget PCB's. Radon. Alar." *New York Times*. September 11, 1994.
- Eckenfelder, W. Wesley, Jr. 1980. *Principles of Water Quality Management*. Boston, MA: CBI Publishing.
- Economics Research Associates. 1979. *Cost Impact of Marine Pollution and Recreation Travel Patterns*. U.S. EPA Environmental Research Laboratory, 68-01-3197, Corvallis, OR. Available from the National Technical Information Service, Springfield, VA: PB-290655.
- Efroymsen, Rebecca A., F. W. Whicker, T. G. Hinton, M. M. MacDonell, J. E. Pinder III, and L. J. Habegger. 2004. "Net Environmental Benefit Analysis." *Science* Vol. 306, No. 5698, p. 976.
- Egan, Kevin J., Joseph A. Herriges, Catherine L. Kling, and John A. Downing. 2009. "Valuing Water Quality as a Function of Water Quality Measures." *American Journal of Agricultural Economics* 91(1): 106-123.
- Eisenberg, Joseph N. S., Jamie Bartram and Paul R. Hunter. 2001. "A public health perspective for establishing water-related guidelines and standards." In *Water Quality: Guidelines, Standards and Health*. Lorna Fewtrell and Jamie Bartram (Editors). London, UK: IWA Publishing.
- Eisen-Hecht, Jonathan I. and Randall A. Kramer. 2002. "A Cost-Benefit Analysis of Water Quality Protection in the Catawba Basin." *Journal of the American Water Resources Association* Vol. 38, No. 2 (April 2002), pp. 453-465.
- Eiswerth, Mark E., and W. Douglass Shaw. 1997. "Adjusting Benefit Transfer Values for Inflation." *Water Resources Research* 33(10): 2381-85.
- Ekstrand, Earl R., and John Loomis. 1998. "Incorporating Respondent Uncertainty When Estimating Willingness to Pay for Protecting Critical Habitat for Threatened and Endangered Fish." *Water Resources Research*. 34(11): 3149-3155.
- Elnagheeb, Abdelmoneim H., and Jordan Jeffrey L. 1995. "Comparing Three Approaches that Generate Bids for the Referendum Contingent Valuation Method." *Journal of Environmental Economics and Management* Volume 29, Issue 1: 92-104.
- Empresa Paulista de Planejamento Metropolitano (EMPLASA). 2008. *Regiao Metropolitana de São Paulo: Dados*. São Paulo: Brasil.
- Eom Young-Sook and Douglas M. Larson. 2006. "Improving Environmental Valuation Estimates through Consistent Use of Revealed and Stated Preference Information." *Journal of Environmental Economics and Management* 52(1): 501-516.
- European Commission. 2008. "Guide to Cost-Benefit Analysis of Investment Projects: Structural Funds, Cohesion Fund, and Instrument for Pre-Accession." Final Report. Directorate General Regional Policy. Brussels: European Commission.

- Evans, James R. and David L. Olson. 1998. *Introduction to Simulation and Risk Analysis*. Upper Saddle River: Prentice Hall, Inc.
- Fay, Marianne, and Tito Yepes. 2003. "Investing in Infrastructure: What is Needed from 2000 to 2010?" Policy Research Working Paper 3102. Infrastructure Vice Presidency, the World Bank.
- Farber, Stephen and Brian Griner. 2000. "Valuing Watershed Quality Improvements using Conjoint Analysis." *Ecological Economics* 34: 63-76.
- _____. 2000. "Using Conjoint Analysis to Value Ecosystem Change." *Environmental Science and Technology* 34(8): 1407-1412.
- Farber, Peter and Daniel Hellerstein. 1997. "Calibrating Benefit Function Transfer to Assess the Conservation Reserve Program." *American Journal of Agricultural Economics*, 79 (10), pp. 151-62.
- Feather, P. M., D. Hellerstein, and T. Tomasi. 1995. "A Discrete-Count Model of Recreation Demand." *Journal of Environmental Economics and Management* 29(4): 214-27.
- Ferrini, Silvia and Riccardo Scarpa. 2007. "Designs with A Priori Information for Nonmarket Valuation with Choice Experiments: A Monte Carlo Study." *Journal of Environmental Economics and Management* 53: 342-363.
- Fischer, Frank, Gerald J. Miller and Mara S. Sidney. 2006. *Handbook of Public Policy Analysis: Theory, Politics, and Methods (Public Administration and Public Policy)*. CRC.
- Fischhoff, Baruch. 1988. "Specifying Value Measurement." In *Amenity Resource Valuation: Integrating Economics with other Disciplines*. George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College: Ventura Publishing, Inc.
- Foster, Vivien and Susana Mourato. 2002. "Testing for Consistency in Contingent Ranking Experiments." *Journal of Environmental Economics and Management* 44: 309-328.
- Fouraker, Lawrence E. 2005. "A Note on Regional Multipliers." *Papers in Regional Science* Volume 1, Issue 1: 111-119.
- Fraas, Arthur G., and Vincent G. Munley. 1984. "Municipal Waste Water Treatment Cost." *Journal of Environmental Economics and Management*. Vol. 11 (1), pp. 28-38.
- Freeman, A. Myrick. III. 1993. *The Measurement of Environmental and Resources Value: Theory and Methods*. Washington, D.C.: Resources for the Future.
- _____. 1995. "The Benefits of Water Quality Improvements for Marine Recreation: A Review of the Empirical Evidence." *Marine Resource Economics* 10(4): 385-406.
- _____. 2003. *The Measurement of Environmental and Resources Value: Theory and Methods*. Second Edition. Washington, D.C.: Resources for the Future..

- Freund, John E., and Ronald E. Walpole. 1980. *Mathematical Statistics*. 3rd Edition. Englewood Cliffs, NJ: Prentice Hall.
- Friklom, Peter, A. Helgesson, and T. Scharin. 2003. "Cost-benefit analysis in Sweden: General Use and Application to Coastal Water Quality Management." Department of Economics. Appalachian State University.
- Fuguitt, Diana and Shanton J. Wilcox. 1999. *Cost-Benefit Analysis for Public Sector Decision Makers*. Westport, CT: Greenwood Publishing Book, Inc.
- Fujita, Yasou, Ayumi Fujii, Shigeki Furukawa, and Takehiko Ogawa. 2005. "Estimation of Willingness-to-Pay (WTP) for Water and Sanitation Services through Contingent Valuation Method (CVM): A Case Study in Iquitos City, the Republic of Peru." *Japan Bank for International Cooperation Review* No. 11, March 2005: 59-87.
- Fuster, Gerard, Marta Schuhmacher, and Jose L. Domingo. 2004. "Cost-Benefit Analysis as a Tool for Decision Making in Environmental Projects." *Environmental Science and Pollution Research*. 11 (5): 307-312.
- Gallup Organisation. 2009. "Flash Eurobarometer on Water: Summary." Survey requested by the Directorate General Environment, European Commission. Brussels: European Commission.
- Galway, Lionel. 2004. "Quantitative Risk Analysis for Project Management: A Critical Review." Working Paper WR-112-RC. RAND Corporation.
- _____. 2007. "Subjective Probability Distribution Elicitation in Cost Risk Analysis: A Review." Technical Report Prepared for the United States Air Force. RAND/Project Air Force.
- Gan, Christopher, and E. Jane Luzar. 1993. "A Conjoint Analysis of Waterfowl Hunting in Louisiana." *Journal of Agricultural and Applied Economics* 25(2): 36-45.
- Garcia, Luis E. 2006. "Water Quality Issues in Latin America." In *Water Quality Management in the Americas*. Asit K. Biswas, Cecilia Tortajada, Benedito Braga, and Diego Rodriguez (Editors). The Netherlands: Springer.
- Gardiner, Paul D. and Kenneth Stewart. 2000. "Revisiting the golden triangle of cost, time and quality: the role of NPV in project control, success and failure." *International Journal of Project Management* Vol. 18, pp. 251-256.
- Garrod, G. and Willis, G. 1999. *Economic Valuation and the Environment*. Cheltenham: Edward Elgar.
- Genius, M., and K. P. Tsagarakis. 2006. "Water Shortages and Implied Water Quality: A Contingent Valuation Study." *Water Resources Research* 42.
- Gentleman, Robert, and Charles J. Geyer. 1994. "Maximum Likelihood for Interval Censored Data: Consistency and Computation." *Biometrika* 81: 618-623.
- Gerking, Shelby, Menno de Haan, and William Schulze. 1988. "The Marginal Value of Job Safety: A Contingent Valuation Study." *Journal of Risk and Uncertainty* 1: 185-99.

- Georgiou, Stavros, Dale Whittington, David Pearce, and Dominic Moran. 1997. *Economic Values and the Environment in the Developing World*. Cheltenham, UK: Edward Elgar Publishing.
- Georgiou, S., I.J. Bateman, and I.H. Langford. 2005. "Cost-Benefit Analysis of Improved Bathing Water Quality in the United Kingdom as a Result of a Revision of the European Bathing Water Directive." In *Cost-Benefit Analysis and Water Resources Management*. In Brouwer, Roy and David Pearce (Editors). Cheltenham, UK: Edward Elgar.
- Gilman, R. H., and P. Skillicorn. 1985. "Boiling of Drinking-Water: Can a Fuel-Scarce Community Afford it?" *Bulletin of the World Health Organization* 63(1): 157-163.
- Gleick, Peter. 2002. "Dirty Water: Estimated Deaths from Water-Related Diseases 2000-2020." Pacific Institute Research Report.
- _____. 2004. *The World's Water 2004-2005. The Biennial Report on Freshwater Resources*. Washington, D.C.: Island Press.
- _____. 2009. *The World's Water 2008-2009. The Biennial Report on Freshwater Resources*. Washington, D.C.: Island Press.
- Goldberger, Arthur S. 1991. *A Course in Econometrics*. Cambridge, MA: Harvard University Press.
- Gollier, Christian. 2002. "Discounting an Uncertain Future." *Journal of Public Economics* 85: 149-166.
- _____. 2004. "Maximizing the Expected Net Future Value as an Alternative Strategy to Gamma Discounting." *Finance Research Letters* Volume 1, Issue 2: 85-89.
- _____. 2008. "Ecological Discounting." Toulouse School of Economics Working Paper.
- _____. 2009. "Should We Discount the Far-Distant Future at Its Lowest Possible Rate?" Discussion Paper 2009-7. Toulouse School of Economics.
- Gollier, Christian and Nicolas Treich. 2003. "Decision-Making Under Scientific Uncertainty: The Economics of the Precautionary Principle." *The Journal of Risk and Uncertainty* 27; 1: 77-103.
- Gollier, Christina, Phoebe Koundour, Theologos Pantelidis. 2008. "Declining Discount Rates: Economic Justification and Implications for Long-Run Policy." Mimeo.
- Gonzalez, Juan Marcos, John B. Loomis, and Armando Gonzalez-Caban. 2008. "A Joint Estimation Method to Combine Dichotomous Choice CVM Models with Count Data TCM Models Corrected for Truncation and Endogenous Stratification." *Journal of Agricultural and Applied Economics* 40, 2: 681-695.
- Gowdy, John M. 2004. "The Revolution in Welfare Economics and Its Implications for Environmental Valuation and Policy." *Land Economics* 80(2): 239-257.

- Graham-Tomasi, Theodore. 1995. "Quasi-Option Value." In *The Handbook of Environmental Economics*. Daniel W. Bromley, ed. Blackwell Handbooks in Economics.
- Graham, Daniel A. 1981. "Cost-Benefit Analysis under Uncertainty." *The American Economic Review* Vol. 71, No. 4, (September 1981), pp. 715-725.
- Gravens, Mark B., Keith D. Hofseth, Richard M. Males, David A. Moser, and Cory M. Rogers. 2008. "Incorporating Complexity and Uncertainty in Planning Models for Engineering: Economic Analysis within the U.S. Army Corps of Engineers." *Journal of Contemporary Water Research and Education* Issue 140: 15-23.
- Green, Donald, Karen E. Jacowitz, Daniel Kahneman, and Daniel McFadden. 1998. "Referendum Contingent Valuation, Anchoring, and Willingness to Pay for Public Goods." *Resource and Energy Economics* 20: 85-116.
- Green, Colin. 2003. *Handbook of Water Economics: Principles and Practice*. West Sussex: John Wiley and Sons Ltd.
- Greene, William H. 1995. LIMDEP. Version 7.0. User's Manual. Australia: Econometric Software, Inc.
- _____. 1997. *Econometric Analysis*. New Jersey: Prentice Hall.
- Gregory, Robin, and Richard C. Bishop. 1988. "Willingness to Pay or Compensated Demanded: Issues in Applied Resource Valuation." in *Amenity Resource Valuation: Integrating Economics with other Disciplines*. George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College: Ventura Publishing, Inc.
- Grey, Stephen. 1995. *Practical Risk Assessment for Project Management*. New York: John Wiley & Sons.
- Griffiths, William E., R. Carter Hill, and George C. Judge. 1993. *Learning and Practicing Econometrics*. New York: John Wiley & Sons, Inc.
- Griffin, Ronald C. 2006. *Water Resource Economics: The Analysis of Scarcity, Policies, and Projects*. Cambridge, MA: The MIT Press.
- Griffiths, Charles. Undated. "The Use of Benefit Cost in Environmental Policy Making." National Center for Environmental Economics. United States Environmental Protection Agency. Washington, D.C.
- Grimsey, Darrin and Mervyn K. Lewis. 2002. "Evaluation the risks of public private partnerships for infrastructure projects." *International Journal of Project Management* Vol. 20, pp. 107-118.
- Groom, Ben, Cameron Hepburn, Phoebe Koundouri, and David Pearce. 2005. "Declining Discount Rates: The Long and the Short of It." *Environmental and Resource Economics* 32: 445-493.
- Groothuis, Peter A. 2005. "Benefit Transfer: A Comparison of Approaches." *Growth and Change* Vol. 36, No. 4: 551-564.

- Gunatilake, Herath, Jui-Chen Yang, Subhrendu Pattanayak, and Kyeong Ae Choe. 2007. "Good Practices for Estimating Reliable Willingness-to-Pay Values in the Water Supply and Sanitation Sector." Economics and Research Department. ERD Technical Note Series No. 23. Manila: Asian Development Bank.
- Gustafsson, Anders, Andreas Hermann, Frank Huber (Editors). 2007. *Conjoint Measurement: Methods and Applications*. Fourth Edition. Berlin, Germany: Springer.
- Haab, T.C. and Kenneth E. McConnell. August 1997a. "A Simple Method for Bounding Willingness to Pay Using a Probit or Logit Model. Unpublished.
- _____. 1997b. "Referendum Models and Negative Willingness to Pay: Alternative Solutions." *Journal of Environmental Economics and Management* 32, pp. 251-270.
- _____. May 1998a. "Referendum Models and Economic Values: Theoretical, Intuitive, and Practical Bounds on Willingness to Pay". *Land Economics* Vol. 74, No. 2, pp. 216-19.
- _____. July 1998b. "Simple Bounds for Willingness to Pay Using a Probit or Logit Model." Unpublished.
- _____. 2002. *Valuing Environmental and Natural Resources: The Econometrics of Non-Market Valuation*. Northampton: Edward Elgar Publishing Limited.
- Hagihara, Kiyoto, Chisato Asahi and Yoshimi Hagihara. 2004. "Marginal Willingness to Pay for Public Investment Under Urban Environmental Risk: The Case of Municipal Water Use." *Environmental and Planning: Government and Policy* 22: 349-362.
- Hahn, Robert W. 2000. "The Impact of Economics on Environmental Policy." *Journal of Environmental Economics and Management* 39 (3), pp. 375-99.
- Halvorsen, Bente and Kjartan Soelensminde. May 1998. "Differences between Willingness-to-Pay Estimates from Open-Ended and Discrete-Choice Contingent Valuation Methods: The Effects of Heteroscedasticity." *Land Economics* 74(2), pp. 262-282.
- Hamouda, Omar F., and John N. Smithin. 1988. "Uncertainty and Economic Analysis." *The Economic Journal* Vol. 98, No. 389: 159-164.
- Han, Aaron, and Jerry A. Hausman. 1990. "Flexible Parametric Estimation of Duration and Competing Risk Models." *Journal of Applied Econometrics* Vol. 5, No. 1: 1-28.
- Hanemann, W. Michael and Barbara Kanninen. 1996. "The Statistical Analysis of Discrete Response CV Data." In *Valuing Environmental Preferences: Theory and Practice of the Contingent Valuation Methods in the US, EC, and Developing Countries*. Ian Bateman and Ken G. Willis (Editors). Oxford: Oxford University Press.

- Hanemann, W. Michael. August 1984. "Welfare Evaluations in Contingent Valuation Experiments with Discrete Responses." *American Journal of Agricultural Economics* pp. 332-340.
- _____. 1989. "Welfare Evaluations in Contingent Valuation Experiments with Discrete Response Data: Reply." *American Journal of Agricultural Economics* 71: 1057-61.
- _____. 1991. "Willingness to Pay and Willingness to Accept: How Much can They Differ?" *The American Economic Review* Vol. 81, No. 3: 635-647.
- _____. 1994. "Valuing the Environment through Contingent Valuation." *Journal of Economic Perspectives* Volume 8, Number 4, pp. 19-43.
- Hanemann, W. Michael, and Bengt Kriström. "On the Interpretation of Responses to Contingent Valuation Survey." In *Current Issues in Environmental Economics*. Per-Olov Johansson, Bengt Kriström, and K. G. Mahler (Editors). Manchester: Manchester University Press.
- Hanley, Nick. 1992. "Are there environmental limits to cost-benefit analysis?" *Environmental and Resource Economics* Vol. 2, No. 1 (January 1992), pp. 33-59.
- Hanley Nick, Susana Mourato, and Robert E. Wright. 2001. "Choice Modelling Approaches: A Superior Alternative for Environmental Valuation?" *Journal of Economic Surveys* Vol 15, No. 3, pp. 435-462.
- _____. 2002. "Choice Modelling Approaches: A Superior Alternative for Environmental Valuation?" In *Issues in Environmental Economics (Survey of Recent Research in Economics)*. Wiley-Blackwell.
- Hanley, Nick and Robert Colin. 2002. *Issues in Environmental Economics (Survey of Recent Research in Economics)*. Wiley-Blackwell.
- Hanley, Nick and Jason F. Shogren. 2005. "Is Cost-Benefit Anomaly-Proof?" *Environmental and Resource Economics* Vol. 32, No. 1, pp. 13-24.
- Hanley, Nick, Sergio Colombo, Bengt Kriström, and Fiona Watson. 2009. "Accounting for Negative, Zero and Positive Willingness to Pay for Landscape Change in a National Park." *Journal of Agricultural Economics* Vol. 60, No. 1: 1-16.
- Hansen, Anders Chr. 2006. "Do Declining Discount Rates Lead to Time Inconsistent Economic Advice?" *Ecological Economics* 50: 138-144.
- Harberger, Arnold. 1996. "Project Evaluation for the Next Decade." in *The Economic Evaluation of Projects: Papers for a Curriculum Development Workshop*. David G. Davies, ed. Washington, D.C.: The World Bank.
- _____. 1996. "Reflections on Social Project Evaluation." In *The Economic Evaluation of Projects: Papers for a Curriculum Development Workshop*. David G. Davies, ed. Washington, D.C.: The World Bank.

- Harris, Charles C., Howard E. A. Tinsley, and Dennis M. Donnelly. 1988. "Research Methods for Public Amenity Resource Valuation: Issues and Recommendations." in *Amenity Resource Valuation: Integrating Economics with other Disciplines*. George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College: Ventura Publishing, Inc.
- Harrison, Glenn W. 1992. "Valuing Public Goods with the Contingent Valuation Method: A Critique of Kahneman and Knetsch." *Journal of Environmental Economics and Management* 23, pp. 248-257.
- Harrison, Glenn W. and Bengt Kriström. 1995. "On the Interpretation of Responses in Contingent Valuation Surveys." In *Current Issues in Environmental Economics*. Johansson, P-O, B. Kriström, and Måler (Editors). Manchester, UK: Manchester University Press.
- Harrison, David Jr., and Daniel L. Rubinfeld. 1978. "The Air Pollution and Property Value Debate: Some Empirical Evidence." *The Review of Economics and Statistics* Vol. 60, No. 4: 635-638.
- Hauger, MB, W. Rauch, J. J. Linde, and P.S. Mikkelsen. 2002. "Cost benefit risk –a concept for management of integrated urban wastewater systems?" *Water Science Technology* Vol. 45, No. 3, pp. 185-93.
- Hausman, Jerry A. (Editor). 1993. *Contingent Valuation: A Critical Assessment*. New York: North-Holland.
- Haveman, Robert H. 1967. "Benefit-Cost Analysis: Its Relevance to Public Investment Decisions: Comment." *Quarterly Journal of Economics* 81 (4): 695-99.
- Hazilla, Michael. 1999. "An Introduction to Operational Contingent Valuation Methods." Unpublished paper prepared for the World Bank Water and Sanitation Clinic. Washington, D.C.: The World Bank.
- _____. 1999. "Econometric Methods for Measurement and Valuation of Environmental Quality". Unpublished Technical Paper, Environment Division, Sustainable Development Department. Washington D.C.: Inter American Development Bank.
- _____. June 1999. "An Introduction to Operational Contingent Valuation Methods." Paper presented at the World Bank Teaching Clinic on Contingent Valuation held 2 June 1999. Washington, D.C.
- Heberlein, Thomas A., Matthew A. Wilson, Richard C. Bishop, Nora Cate Schaeffer. 2005. "Rethinking the Scope Test as a Criterion for Validity in Contingent Valuation." *Journal of Environmental Economics and Management* 50: 1-22.
- Heinzen, Rebekah R., and John F. P. Bridges. 2008. "Comparison of Four Contingent Valuation Methods to Estimate Economic Value of a Pneumococcal Vaccine in Bangladesh." *International Journal of Technology Assessment in Health Care* 24: 481-487.

- Heinzerling, Lisa. 1999. "Discounting Our Future." *Land and Water Law Review* 39: 71.
- Heinzerling, Lisa and Frank Ackerman. 2002. "Pricing the Priceless: Cost-Benefit Analysis of Environmental Protection." Georgetown Environmental Law and Policy Institute, Georgetown University Law Center. Washington, D.C.: Georgetown University.
- Hensher, David A., John M. Rose, William H. Greene. 2005. *Applied Choice Analysis: A Primer*. Cambridge, UK: Cambridge University Press.
- Hepburn, Cameron. 2003. "Hyperbolic Discounting and Resource Collapse." Department of Economics Discussion Paper Series Number 159. Oxford: University of Oxford.
- Hepburn, Cameron and Ben Groom. 2007. "Gamma Discounting and Expected Net Future Value." *Journal of Environmental Economics and Management* 53: 99-109.
- Hermann, Roberto Max, and Benedito Pinto Ferreira Braga Jr. 1997. "The Upper Tietê Basin, Brazil." Case Study VI in *Water Pollution Control – A Guide to the Use of Water Quality Management Principles* Edited by Richard Helmer and Ivanildo Hespanhol. Suffolk: St. Edmundsbury Press.
- Herriges, Joseph A., and Catherine L. Kling (Editors). 1999. *Valuing Recreation and the Environment*. Cheltenham, UK: Edward Elgar.
- Hertzler, Greg. 2008. "Dynamic Contingent Valuation and Choice Modelling for Ecosystem Services." Paper presented at the Australian Agricultural and Resource Economics Society 52nd Annual Conference.
- Hidano, Noboru. 2003. *The Economic Valuation of the Environment and Public Policy: A Hedonic Approach*. Cheltenham, UK: Edward Elgar Publishing Limited.
- Hillson, David A. and David T. Hulett. 2004. "Assessing Risk Probability: Alternative Approaches." Prague: Czech Republic: PMI Global Congress Proceedings.
- HM Treasury. 2003. *The Green Book: Appraisal and Evaluation in Central Government*. London: HM Treasury.
- Ho, Simon S. M. and Richard H. Pike. 1992. "The Use of Risk Analysis Techniques in Capital Investment Appraisal." Chapter 5 in *Risk: Analysis, Assessment and Management*, Jake Ansell and Frank Wharton, editors. New York: John Wiley & Sons.
- Hoehn, John P. and Alan Randall. 1989. "Too Many Proposal Pass the Benefit-Cost Test." *The American Economic Review* Vol. 79, No. 3 (June 1989), pp. 544-551.
- Hoehn, John P., and Cindy Sorg Swanson. 1988. "Toward a Satisfactory Model of Contingent Valuation Behavior in a Policy Valuation Context" in *Amenity Resource Valuation: Integrating Economics with other Disciplines*. George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College: Ventura Publishing, Inc.

- Hoehn, John P., and Alan Randall. 1987. "A Satisfactory Benefit Cost Indicator from Contingent Valuation." *Journal of Environmental Economics and Management* 14, pp. 226-247.
- Hoevenagel, Ruud. 1994a. "An Assessment of the Contingent Valuation Method." in *Valuing the Environment: Methodological and Measurement Issues*. Netherlands: Kluwer Academic Publishers.
- _____. 1994b. "A Comparison of Economic Valuation Methods." In *Valuing the Environment: Methodological and Measurement Issues*. Rüdiger, Pethig (Editor). Dordrecht, The Netherlands: Kluwer.
- _____. 1996. "The Validity of the Contingent Valuation Method: Perfect and Regular Embedding." *Environment and Resource Economics* Volum 7, Number 1: 57-78.
- Holmes, Thomas P., Kevin J. Boyle, Mario F. Teisl, and Brian Roe. 2002. "A Comparison of Conjoint Analysis Response Formats: Reply." *American Journal of Agricultural Economics* 84(4): 1172-1175.
- Holmes, Thomas P., and William L. Adamowicz. 2003. "Attribute-Based Methods." In *A Primer on Nonmarket Valuation*. Patricia A. Champ, K. J. Boyle, and Thomas C. Brown (Editors). Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Horowitz, J. L. 1998. *Semiparametric Methods in Econometrics*. Springer.
- _____. 2002. "Preferences in the Future." *Environmental and Resource Economics* 21: 241-259.
- Horowitz, John and Kenneth E. McConnell. 2002. "A Review of WTA/WTP Studies." *Journal of Environmental Economics and Management* 44: 426-47.
- Hotelling, Harold. 1947 Letter to National Park Service in an Economic Study of the Monetary Evaluation of Recreation in the National Park Service United States Department of the Interior, National Park Service and Recreation Planning Division. Washington, D.C.
- Huang, Ju-Chin, Douglas W. Nychka, and V. Kerry Smith. December 21, 1995. "Nonparametric Discrete Choice Methods for Measuring Economic Values." Unpublished.
- Huang, Ju-Chin, Timothy C. Haab, and John C. Whitehead. 1997. "Willingness to Pay for Quality Improvements: Should Revealed and Stated Preference Data Be Combined?" *Journal of Environmental Economics and Management* 34: 240-255.
- Huan, Ju-Chin, Douglas W. Nychka, and V. Kerry Smith. 2008. "Semi-Parametric Discrete Choice Measures of Willingness to Pay." *Economic Letters* 101: 91-94.
- Huber, Joel and W. Kip Viscusi. 2006. "Economics of Environmental Improvement." Report prepared under EPA Cooperative Agreement CR823604 and Grant R827423 to Harvard University with the National Center for Environmental Economics. Washington, D.C.: U.S. Environmental Protection Agency.

- Hulett, David T. 2004. "Using Quantitative Risk Analysis to Support Strategic Decisions." London, UK: Consult GEE Executive Briefings in Business Risk Management.
- Hulett, David T. 1999. "Project Cost Risk Analysis Using Crystal Ball." Los Angeles, CA: Hulett & Associates.
- Hulett, David T. 2002. "Project Cost Risk Analysis." Los Angeles, CA: Hulett & Associates.
- Hutchinson, George W., Riccardo Scarpa, Susan M. Chilton and T. McCallion. 2001. "Parametric and Non-Parametric Estimates of Willingness to Pay for Forest Recreation in Northern Ireland: A Discrete Choice Contingent Valuation Study with Follow-Ups." *Journal of Agricultural Economics* Volume 52, Number 1: 104-122.
- Hutton, Guy and Laurence Haller. 2004. "Evaluation of the Costs and Benefits of Water and Sanitation Improvements at the Global Level." *Water, Sanitation and Health. Protection of the Human Environment WHO/SDE/WSH/04.04.* Geneva: World Health Organization.
- Hutton, Guy. 2001. "Economic evaluation and priority setting in water and sanitation interventions." In Fewtrell, L. and J. Bartram (Editors) *Water Quality Guidelines, Standards and Health* London, UK: IWA Publishing.
- Hyman, David N. 1990. *Public Finance* 3rd Edition. Chicago: Dryden Press.
- Institute for Water Resources. 1999. "Tools for Risk Based Economic Analysis." IWR Report 99-R-2. Alexandria, VA: U.S. Army Corps of Engineers.
- Instituto Brasileiro de Geografia e Estatística (IBGE). 2002. *Pesquisa de informacoes basicas municipais.* Brasilia: Brasil.
- _____. 2004. *DimenSão ambiental: Agua doce.* Brasilia: Brasil.
- _____. 2008. *Estimativas das Populacoes Residentes.* Brasilia: Brazil.
- Inter-American Development Bank. 1992. *Statistical Models for Estimating the Economic Benefits of Goods Not Sold in Markets: Readings.* Training seminar material. N.p. Washington, D.C.
- _____. 1998. "Relatorio Preliminar de Projeto, Anexo, Relatorio da Realização de Pesquisa de Disposição a Pagar."
- _____. 2003. "Workshop on Financing Water and Sanitation Services: Options and Constraints." Washington, D.C.: Inter-American Development Bank.
- _____. 2005. *Buenas Prácticas para la Creación, Mejoramiento y Operación Sostenible de Organismos y Organizaciones de Cuenca.* Sustainable Development Department, Environment Division. Washington, D.C.: Inter-American Development Bank.
- International Water Association (IWA). 2006. "Meeting the Future Global Challenges: Thoughts, Visions and Recommendations." Prepared by the IWA Council of Distinguished Water Professionals.

- Jaafari, Ali. February 2001. "Management of Risks, Uncertainties and Opportunities on Projects: Time for a Fundamental Shift." *International Journal of Project Management*. Vol 19 No. 2, pp. 89-101.
- Janssen, Ron. 1992. *Multi-objective Decision Support for Environmental Management*. Dordrecht, The Netherlands: Kluwer.
- Jenkins, Glenn P. 1997. "Project Analysis at the World Bank." *American Economic Review* Vol. 87 (2), pp. 38-42.
- Jianming, Wang, Wang Huatong, Wu Zhisha, Lin Yonghe, and Wan Guojang. 1983. "Water Pollution: A Chinese Perspective," in *Natural Systems for Development: What Planners Need to Know*, R. Carpenter, ed. Pp.388-431. New York: Macmillan.
- Johansson, Per-Olov. 1991. *An Introduction to Modern Welfare Economics*. New York: Cambridge University Press.
- _____. 1993. *Cost-Benefit Analysis of Environmental Change*. Cambridge, UK: Cambridge University Press
- _____. 1995. *Evaluating Health Risk*. Cambridge, UK: Cambridge University Press.
- Johansson, Per Olov, Bengt Kriström, and Karl Goran Mäler. 1989. "Welfare Evaluations in Contingent Valuation Experiments with Discrete Response Data: Comment." *American Journal of Agricultural Economics*. Vol. 71. Pp. 1054 1056.
- Johnson, Norman L. and Samuel Kotz. 1972. *Distribution in Statistics: Continuous Multivariate Distributions*. New York: John Wiley and Sons.
- Johnson, F. Reed, William H. Desvousges, Erin E. Fries, and Lisa L. Wood. 1995. "Conjoint Analysis of Individual and Aggregate Preferences." Technical Paper No. T-9502, Triangle Economic Research.
- Johnson, Keith. 1985. "Risk Analysis and Project Selection: A Review of Practical Issues." *Asian Development Bank Economic Staff Paper No. 28*. Philippines: The Asian Development Bank.
- Johnston, Robert J. 2006. "Is Hypothetical Bias Universal? Validating Contingent Valuation Responses Using a Binding Public Referendum." *Journal of Environmental Economics and Management* 52: 469-481.
- Jones-Lee, M. W., M. Hammerton, and P. R. Philips. 1985. "The Value of Safety: Results of a National Sample Survey." *Economic Journal* 95: 49-72.
- Just, Richard E., Darrell L. Hueth, and Andrew Schmitz. 2004. *The Welfare Economics of Public Policy: A Practical Approach to Project and Policy Evaluation*. Cheltenham, UK: Edward Elgar Publishing.
- Kalman, Orit, Jay R. Lund, Daniel K. Lew, Douglas M. Larson. 2000. "Benefit-Cost Analysis of Stormwater Quality Improvements." *Environmental Management* Vol. 26, No. 6 (December 2000), pp. 615-628.

- Kamuanga, Malumba, Koaudio Tano, Merle D. Faminow, and Brent Swallow. 2002. "Using Conjoint Analysis to Estimate Farmers' Preferences for Cattle Traits in West Africa." *Fondazione Eni Enrico Mattei Research Paper Series No. 1.2002*. Italy.
- Katz, Max. 1969. Appendix F in Robert Nathan Associates, "Mine Draining Pollution and Recreation in Appalachia." Washington, D.C.: Robert Nathan Associates.
- Kask, Susan B., and Jason F. Shogren. 1994. "Benefit Transfer Protocol for Long-Term Health Risk Valuation: A Case of Surface Water Contamination." *Water Resources Research* 30(10): 2813-23.
- Kennedy, Peter. 1992. *A Guide to Econometrics*. Cambridge: The MIT Press.
- Kendrick, Tom. 2003. *Identifying and Managing Project Risk: Essential Tools for Failure-Proofing Your Project*. AMACOM.
- Kenyon Wendy, Nick Hanley, and Ceara Nevin. 2001. "Citizens' Juries: An Aid to Environmental Valuation?" *Environment and Planning C: Government and Policy* 19(4): 557 – 566
- Kerr, Geoffrey N. 2000. "Dichotomous Choice Contingent Valuation Probability Distributions." *The Australian Journal of Agricultural and Resource Economics* 44: 233-252.
- Kirchoff, Stefanie, Bonnie G. Colby, and Jeffrey T. LaFrance. 1997. "Evaluation the Performance of Benefit Transfer: An Empirical Inquiry." *Journal of Environmental Economics and Management* 33(1): 75-93.
- Khatry, K.B., and K. Vairavamoorthy. 2007. "Challenges for Urban Water Supply and Sanitation in Developing Countries." Discussion Draft Paper for the Session on Urbanisation. Delft, Netherlands: Unesco-IHE.
- Kliem, Ralph L. and Irwin S. Ludin. *Reducing Project Risk*. Aldershot, England; Brookfield, VT: Glower.
- Kling, Catherine L., and Cynthia J. Thompson. 1996. "The Implications of Model Specification for Welfare Estimation in Nested Logit Models." *American Journal of Agricultural Economics* 78(1): 103-114.
- Kling, Catherine L. 1997. "The Gains from Combining Travel Cost and Contingent Valuation Data to Nonmarket Goods." *Land Economics* 73(3): 428-439.
- Kmenta, Jan. 1971. *Elements of Econometrics*. New York: Macmillan Publishing Co., Inc.
- Kneese, Allen V., and Blair T. Bower. 1968. *Managing Water Quality: Economics, Technology and Institutions*. Baltimore, MD: Johns Hopkins University Press.
- Knetsch, Jack L. 2005. "Gains, Losses, and the US-EPA Economic Analyses Guidelines: A Hazardous Product?" *Environmental & Resource Economics* 32: 91-112.

- Kögel, Tomas. 2009. "On the Relation between Dual-Rate Discounting and Substitutability." Discussion Paper 2009-10. The Open Access, Open Assessment E-Journal.
- Kolstad, Charles. 2000. *Environmental Economics*. New York: Oxford University Press.
- Kontogianni, Areti, Mihalis S. Skourtos, Ian H. Langford, Ian J. Bateman, and Stavros Georgiou. 2001. "Integrating Stakeholder Analysis in Non-Market Valuation of Environmental Assets." *Ecological Economics* 37: 123-138.
- Kontogianni, Areti, Ian H. Langford, Andreas Papandreou, and Mihalis S. Skourtos. 2003. "Social preferences for improving water quality: An economic analysis of benefits from waste water treatment." *Water Resources Management*, 17(5): 317-336.
- Kniesner, Thomas J. and W. Kip Viscusi. 2002. "Cost-Benefit Analysis: Why Relative Economic Position Does Not Matter." Working Paper 02-5. AEI-Brookings Joint Center for Regulatory Studies.
- Kravchuck, Robert S. Winter. 1989. "A Footnote to Cost-Benefit Analysis Applied Under Conditions of Radical Ignorance." *Policy Studies Journal* Vol. 18, No. 2, pp. 326-341.
- Krier, Michael. 1994. "Evaluation of Cost-Effectiveness Analysis in Project Appraisal." Working Paper Series No. 102-94, PRA/PAO. Washington, D.C.: Inter-American Development Bank.
- Kristofersson, Dadi, and Sta Le Navrud. 2005. "Validity Tests of Benefit Transfer – Are We Performing the Wrong Tests?" *Environment and Resource Economics* 30: 279-286.
- Kriström, Bengt. 1990. "A Non-Parametric Approach to the Estimation of Welfare Measures in Discrete Response Valuation Studies." *Land Economics* 66 (2), PP. 135-139.
- Krupnick, Alan and Maureen Cropper. 1992. "The Effect of Information on Health Risk Valuation." *Journal of Risk and Uncertainty* 5: 29-48.
- Krupnick, Alan, Kenneth Harrison, Eric Nickell, and Michael Toman. 1996. "The Value of Health Benefits from Ambient Air Quality Improvements in Central and Eastern Europe: An Exercise in Benefits Transfers." *Environmental and Resource Economics* 7(4): 307-32.
- Krutilla, John V. 1967. "Conservation Reconsidered." *American Economic Review* 57: 787-796.
- Kolstad, Charles D. 2000. *Environmental Economics* New York: Oxford University Press.
- Kopp, Raymond J., Alan Krupnick, and Michael Toman. 1997. "Cost-Benefit Analysis and Regulatory Reform: An Assessment of the Science and the Art." Discussion Paper 97-19. Washington, D.C.: Resources for the Future.

- Lahlu, Mohammed, Sayedul H. Choudhury, Yin Wu, Kirk Baldwin, and D. King Boynton. 1995. *QUAL2E Windows Interface User's Guide*. EPA/823/B/95/003. Washington, D.C.: U.S. Environmental Protection Agency.
- Langford, Ian H., Ian J. Bateman, Andrew P. Jones, Hugh D. Langford, and Stavros Georgiou. 1998. "Improved Estimation of Willingness to Pay in Dichotomous Choice Contingent Valuation Studies." *Land Economics* 74(1), pp. 65-75.
- Larson, Douglas M. 1993. "Joint Recreation Choices and Implied Values of Time." *Land Economics* 69(3): 270-286.
- _____. 1993. "Separability and the Shadow Value of Leisure Time." *American Journal of Agricultural Economics* Volume 75, Issue 3: 572-577.
- Laughland, Andrew S., Wesley N. Musser, James S. Shortle, and Lynn M. Musser. 1996. "Validity of Averting Cost Measures of Environmental Benefits." *Land Economics* Vol. 72, No. 1: 100-112.
- Layard, Richard and Stephen Glaister, Editors. 1994. *Cost-Benefit Analysis*. Second Edition. New York, NY: Cambridge University Press.
- Lee, Chih-Sheng and Ching-Gung Wen. 1996. "Application of multiobjective programming to water quality management in a river basin." *Journal of Environmental Management* Vol 47: 11-26.
- Lee, Norman, and Colin Kirkpatrick. 1996. "Relevance and Consistency of Environmental Impact Assessment and Cost-Benefit Analysis." *Project Appraisal*. 11 (4), pp. 229-36.
- Lehr, Jay H., and Jack Keeley (Editors). 2005. *Water Encyclopedia: Domestic, Municipal, and Industrial Water Supply and Waste Disposal*. Hoboken, New Jersey: John Wiley & Sons, Inc.
- Liao, Tim Futing. 1994. *Interpreting Probability Models: Logit, Probit, and Other Generalized Linear Models*. Series Number 07 101. Series: Quantitative Applications in the Social Sciences. Thousand Oaks, California: Sage Publications, Inc.
- Lienhoop, Nele and Douglas MacMillan. 2007. "Valuing Wilderness in Iceland: Estimation of WTA and WTP Using the Market Stall Approach to Contingent Valuation." *Land Use Policy* 24: 289-295.
- Linker, Lewis. 1996. "Models of the Chesapeake Bay." *Sea Technology* 37, pp. 49-55.
- Lind, Robert C. 1997. "Intertemporal Equity, Discounting, and Economic Efficiency in Water Policy Evaluation." *Climate Change* 37: 41-62.
- Lock, Dennis. 2007. *The Essentials of Project Management*. 3rd Edition. Ashgate Publishing Limited.
- Lohani, B. N. and Pakorn Adulbhan. 2007. "A Multiobjective Model for Regional Water Quality Management." *Journal of the American Water Resources Association* Volume 17, Issue 1: 142-143.

- Londero, Elio. Editor. 1992. *Precios de Cuenta: Principios, Metodología y Estudios de Caso*. Washington, D.C.: Banco Interamericano de Desarrollo.
- Loomis, John B. 1972. "Balancing Public Trust Resources of Mono Lake and Los Angeles' Water Right: An Economic Approach." *Water Resources Research* 23: 1449-1456.
- _____. 1992. "The Evolution of a More Rigorous Approach to Benefit Transfer: Benefit Function Transfer." *Water Resources Research* 28(3): 701-5.
- Loomis, John B., Lucas S. Bair, and Armando González-Cabán. 2002. "Language-Related Differences in a Contingent Valuation Study: English Versus Spanish." *American Journal of Agricultural Economics* Volume 84, Issue 4: 1091-1102.
- Loucks, Daniel P., Jerry R. Stedinger, and Douglas Haith. 1981. *Water Resource Systems Engineering*. Englewood Cliffs, NJ: Prentice-Hall.
- Loureiro, Maria L., John B. Loomis, and Laura Nahuelhual. 2004. "A Comparison of Parametric and a Non-Parametric Method to Value a Non-Rejectable Public Good." *Journal of Forest Economics* Volume 10, Issue 2: 61-74.
- Louviere, Jordan J. 1988. "Conjoint Analysis Modeling of Stated Preferences: A Review of Theory, Methods, Recent Developments and External Validity." *Journal of Transport Economics and Policy* Vol. 22: 93-119.
- _____. 1988. *Analyzing Decision Making: Metric Conjoint Analysis (Quantitative Applications in the Social Science)*. Sage Publications Inc.
- _____. 1994. "Conjoint Analysis." In *Handbook of Marketing Research* Bagozzi, R. (Editor): Oxford: Blackwell Publishers.
- Louviere, Jordan J. and Harry J. P. Timmermans. 1990. "Stated Preference and Choice Models Applied in Recreation Research: A Review." *Leisure Sciences* Vol. 12: 9-32.
- Louviere, Jordan J., David A. Hensher, Joffre D. Swait, and Wiktor Adamowicz. 2000. *Stated Choice Methods: Analysis and Applications* Cambridge, UK: Cambridge University Press.
- Luce, D.R., and J.W. Tukey. 1964. "Simultaneous Conjoint Measurement: A New Type of Fundamental Measurement." *Journal of Mathematical Psychology* 1:1-27.
- Lusk, Jayson L. and F. Bailey Norwood. 2005. "Effect of Experimental Design on Choice-Based Conjoint Valuation Estimates." *American Journal of Agricultural Economics* 87 (3): 771-785.
- Mackenzie, John. 1993. "A Comparison of Contingent Preference Models." *American Journal of Agricultural Economics* 75 pp. 593-603.
- _____. 1992. "Evaluating Recreation Trip Attributes and Travel Time Via Conjoint Analysis." *Journal of Leisure Research* 24(2): 171-84.
- MacMillan, Douglas C., Lorna Philip, Nick Hanley, and Begona Alvarez-Farizo. 2002. "Valuing the Non-Market Benefits of Wild Goose Conservation: A Comparison of Interview and Group-Based Approaches." *Ecological Economics* 43: 49-59.

- Maddala, G.S. 1983. *Limited Dependent and Qualitative Variables in Econometrics*. Econometric Society Monographs No. 3. New York: Cambridge University Press.
- Mahmud, Minhaj. 2005. "Contingent Valuation of Mortality Risk Reduction in Developing Countries: A Mission Impossible?" Department of Economics, Göteborg University. Working Papers in Economics No. 169. Göteborg, Sweden.
- Maimon, Dalia. N.d. "Health Impacts of Chemical Pollution and Domestic Wastewater in Rio De Janeiro Metropolitan Region." Report to the Environment Policy and Research Division. Washington, D.C.: The World Bank.
- Manski, Charles F. 1975. "Maximum Score Estimation of the Stochastic Utility Model of Choice." *Journal of Econometrics* 3: 205-228.
- Mariño, Manuel, and John Boland. 1998. "Deciding Where, When, and How Much to Invest in Wastewater Treatment: An Integrated Approach." Paper prepared for the Transport, Water and Urban Development Department of the World Bank. Washington, D.C.: World Bank.
- Margulis, Sergio, Gordon Hugues, Martin Gambrill and Luiz Gabriel T. Azevedo. 2002. *Brazil: Managing Water Quality. Mainstreaming the environment in the water sector*. World Bank Technical Paper No. 532. Washington, D.C.: The World Bank.
- Margulis, Sergio. 1992. "Back-of-the-Envelope Estimates of Environmental Damage Costs in Mexico." LAC WPS 824. Washington, D.C.: The World Bank.
- Markandya, Anil. 2004. "Water Quality Issues in Developing Countries." Draft paper. Contribution to a volume on *Essays in Environment and Development* Joseph Stiglitz (Editor). Washington, D.C.: The World Bank.
- Markandya, Anil. and M. Narsimha Murty. 2004. "Cost-benefit analysis of cleaning the Ganges: some emerging environment and development issues." *Environment and Development Economics* Vol. 9, pp. 61-81.
- Markandya, Anil, Patrice Harou, Lorenzo Giovanni Bellu, and Vito Cistulli. 2002. *Environmental Economics for Sustainable Growth: A Handbook for Practitioners* Edward Elgar Publishing.
- Massignon, Nicole. 1993. "The Urban Explosion in the Third World." *OECD Observer* 182: 18-22.
- Matzkin, Rosa L. 1992. "Nonparametric and Distribution-Free Estimation of the Binary Threshold Crossing and the Binary Choice Models." *Econometrica* Vol. 60, No. 2: 239-270.
- Mazzotta, Marisa J., James J. Opaluch, and Thomas A. Grigalunas. 1997. "Valuing Estuarine Resources: A Contingent Choice Study of the Peconic Estuary System." Working paper, Environmental and Natural Resources Economics Department. University of Rhode Island, Kingston, RI.

- McClave, James T., Frank H. Dietrich, II, and Terry Sincich. 1997. *Statistics*. Upper Saddle River: Prentice Hall, Inc.
- McClelland, Nina I. 1974. *Water Quality Index Application in the Kansas River Basin*. EPA-907/9-74-001. Washington, D.C.: U.S. Environmental Protection Agency.
- McConnell, Virginia D., and Gregory E. Schwarz. 1992. "The Supply and Demand for Pollution Control: Evidence from Waste Water Treatment." *Journal of Environmental Economics and Management*. Vol. 23 (1), pp. 54-77.
- McConnell, Kenneth E., Quinn Weninger, and Ivan E. Strand. 1999. "Joint Estimation of Contingent Valuation and Truncated Recreational Demands." In *Valuing Recreation and the Environment: Revealed Preference Methods in Theory and Practice* Joseph A. Herriges and Catherine L. Kling (Editors). Cheltenham, U.K.: Edward Elgar.
- McConnell, Kenneth E., and Marcia A. Rosado. 2000. "Valuing Discrete Improvements in Drinking Water Quality Through Revealed Preferences." *Water Resources Research* 36(1): 123-141.
- McConnell, Kenneth E. 1985. "The Economics of Outdoor Recreation." In *Handbook of Natural Resource and Energy Economics, Volume II A*. Kneese and J. Sweeney (Editors). Elsevier Science Publishers B.V.
- _____. 1990. "Models for Referendum Data: The Structure of Discrete Choice Models for Contingent Valuation." *Journal of Environmental Economics and Management* 18, pp. 19-34.
- _____. 1992. "On-Site Time in the Demand for Recreation." *American Journal of Agricultural Economics* 74(4): 918-925.
- _____. 1995. "Issues in Estimating Benefits with Non Market Methods". Office of the Chief Economist. Working Paper Series 308. Inter American Development Bank. Washington, D.C.
- McConnell, Kenneth E., and Ivar E. Strand. 1981. "Measuring the Cost of Time in Recreation Demand Analysis: An Application to Sportsfishing." *American Journal of Agricultural Economics* 63: 169-173.
- _____. 1989. "Benefits from Commercial Fisheries when Demand and Supply Depend on Water Quality." *Journal of Environmental Economics and Management* Vol. 17(3), pp. 284-92.
- McConnell, K.E. and Ducci Jorge H. 1989. "Valuing Environmental Quality in Developing Countries: Two Case Studies". Unpublished paper prepared for AERE Session on Contingent Valuation Surveys in Developing Countries. December 29, 1989. Atlanta, Georgia.
- McConnell, K.E. 1988. "Introducing Referendum Models". Unpublished paper prepared for IDB Workshop on Valuation Techniques in Project Analysis. November 21, 1988. Washington, D.C.
- McFadden, Daniel. 1994. "Contingent Valuation and Social Choice." *American Journal of Agricultural Economics* 76, pp. 689-708.

- _____. 1974. "Conditional Logit Analysis of Qualitative Choice Behavior." In *Frontiers on Econometrics*. Zarembka, P. (Editor). New York: Academic Press.
- McFadden, Daniel and Gregory K. Leonard. 1993. "Issues in the Contingent Valuation of Environmental Goods: Methodologies for Data Collection and Analysis." In *Contingent Valuation: A Critical Assessment*. J. Hausmann (ed.). Amsterdam: Elsevier. Pp. 165-215.
- McKean, John R, Donn M. Johnson, and Richard G. Walsh. 1995. "Valuing Time in Travel Cost Demand Analysis: An Empirical Investigation." *Land Economics* 71(1): 96-105.
- McLean, David G., and Bill Mundy. 1998. "The Addition of Contingent Valuation and Conjoint Analysis to the Required Body of Knowledge for the Estimation of Environmental Damages to Real Property." *Journal of Real Estate Practice and Education* Volume 1, Number 1: 1-19.
- McMahon, P., D. Moran, P. Sutherland, and C. Simmonds. "Contingent Valuation of First-Time Sewerage Provision in South-East England." *Water and Environment Journal* Volume 14, Issue 4: 277-283.
- Medin, Hege, Karine Nyborg, and Ian Bateman. 1998. "The Assumption of Equal Marginal Utility of Income: How Much Does it Matter?" Discussion Papers No. 241, Statistics Norway, Research Department.
- Megill, Robert E. 1977. *An Introduction to Risk Analysis*. Tulsa: PennWell Publishing Company.
- Melnick, Edward, and Brian S. Everitt (Editors). 2008. *Encyclopedia of Quantitative Risk Analysis and Assessment*. Wiley.
- Mercer, Lloyd J. and W. Douglas Morgan. 1975. "Evaluation of a Probability Approach to Uncertainty in Benefit-Cost Analysis." Contribution No. 149, California Water Resources Center. University of California at Davis.
- _____. 1978. "Measurement of Uncertainty in Public Water Resource Development: An Extension." *American Journal of Agricultural Economics* Vol. 60, No. 2: 241-244.
- Meyer, Mary A. and Jane M. Booker. 2001. *Eliciting and Analyzing Expert Judgement: A Practical Guide*. Alexandria, VA: Society for Industrial and Applied Mathematics-American Statistical Society.
- Mian, M. A. 2002. *Project Economics and Decision Analysis: Probabilistic Models*. PenWell Corporation.
- Mitchell, Robert and Richard Carson. 1981. "An Experiment in Determining Willingness to Pay for National Water Quality Improvements." Draft report to the U.S. Environmental Protection Agency. Washington, D.C.: U. S. Environmental Protection Agency.

- _____. 1995. "Current Issues in the Design, Administration and Analysis of Contingent Valuation Surveys." In *Current Issues in Environmental Economics* Per-Olov Johansson, Bengt Kriström, and Karl Göran Mäler (Editors). Manchester, England: Manchester University Press.
- Mi-Jung, Um, Kwak Seung-Jun and Kim Tai-Yoo. 2002. "Estimating Willingness to Pay for Improved Drinking Water Quality Using Averting Behavior Method with Perception Measure." *Environmental and Resource Economics* 21: 287-302.
- Miller, Roger and Donald Lessard. 2001. "Understanding and managing risks in large engineering projects." *International Journal of Project Management* Vol. 19, pp. 437-443.
- Ministerio de Meio Ambiente. 2006. *Plano Nacional de Recursos Hídricos*. Brasil: Secretaria de Recursos Hídricos.
- Ministerio de Turismo (MdT) – Brasil. 2009. *State of São Paulo*. Ministerio de Turismo Portal. Brasília: Brasil.
- Mitchell, Robert C. and Richard T. Carson. 1989. *Using Surveys to Value Public Goods: The Contingent Valuation Method*. Washington, D.C.: Resources for the Future.
- Mitchell, Robert C. April 1987. "How Far Along the Learning Curve is Contingent Valuation?". Discussion Paper QE 87 07. Washington, D.C.: Resources for the Future.
- _____. 1988. "Evaluating the Validity of Contingent Valuation Studies." in *Amenity Resource Valuation: Integrating Economics with other Disciplines*. George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College: Ventura Publishing, Inc.
- Moe, Christine L. and Richard D. Rheingans. 2006. "Global Challenges in Water, Sanitation, and Health." *Journal of Water and Health* Vo. 4.
- Montgomery, Maggie A., and Menachem Elimelech. 2007. "Water and Sanitation in Developing Countries: Including Health in the Equation." *Environmental Science and Technology* January 2007: 17-74.
- Mooney, Christopher Z. 1997. *Monte Carlo Simulation. Series: Quantitative Applications in the Social Sciences*. No. 116. Thousand Oaks, CA: Sage Publications, Inc.
- Morgan, M. Granger and Max Henrion. 1990. *Uncertainty: A Guide to Dealing with Uncertainty in Quantitative Risk and Policy Analysis*. New York: Cambridge University Press.
- Moser, David A. 1996. "The Use of Risk Analysis by the U.S. Army Corps of Engineers." Institute for Water Resources, U.S. Army Corps of Engineers.
- Motta da, Serôa, Ronaldo, Ana Paula Fernandes Mendes, Francisco Eduardo Mendes, and Carlos Eduardo Frickmann Young. N.d. "Environmental Damages and Services Due to Household Water Use." Working Paper No. 258. Instituto de Pesquisa Econômica Aplicada. Rio de Janeiro: Brazil.

- Munro, Gordon R., and Anthony D. Scott. 1985. "The Economics of Fisheries Management", in *Handbook of Natural Resource and Energy Economics*, Vol. II, A.V. Kneese and J. L. Sweeney, eds. New York, NY: Elsevier (North-Holland).
- Mykland, Per A., and Jian-Jian Ren. 1996. "Algorithms for Computing Self-Consistent and Maximum Likelihood Estimators with Doubly Censored Data." *Annals of Statistics* 24: 1740-1764.
- Nardini, Andrea. 1997. "A Proposal for Integrating Environmental Impact Assessment, Cost-Benefit Analysis and Multicriteria Analysis in Decision-Making." *Project Appraisal* Volume 12, Number 3, pp. 173-184.
- Nas, Tevfik F. 1996. *Cost-Benefit Analysis: Theory and Applications*. Thousand Oaks, CA: Sage Publications Ltd.
- National Academy of Sciences, National Academy of Engineers (NAS/NAE). Committee on Water Quality Criteria. 1972. *Water Quality Criteria: 1972*. Washington, D.C.: U. S. Environmental Protection Agency.
- National Oceanographic and Atmospheric Administration (NOAA). 1993. "Natural Resource Damage Assessment Under the Oil Pollution Act of 1990." *Federal Register* 58(10): 4601-14.
- National Planning Association. 1975. *Water Related Recreation Benefits Resulting from P.L. 92-500*. Prepared for the National Committee on Water Quality. Washington, D.C.
- National Technical Advisory Committee. 1968. *Water Quality Criteria: A Report of the National Technical Advisory Committee to the Secretary of the Interior*. Washington, D.C.: Federal Water Pollution Control Administration.
- Natural Resources, Environment and Rural Poverty Division (NRERPD). 1996. *Brazil: Managing Environmental Pollution in the State of Rio de Janeiro*. Vol. II, Report No. 15488-BR. Washington, D.C.: The World Bank.
- Neupane, Anish and Kent Gustavson. 2008. "Urban Property Values and Contaminated Sites: A Hedonic Analysis of Sydney, Nova Scotia." *Journal of Environmental Management* 88: 1212-1220.
- Newell, Richard G. and William A. Pizer. 2003. "Discounting the Distant Future: How Much do Uncertain Rates Increase Valuation?" *Journal of Environmental Economics and Management* 46: 52-71.
- New Zealand Treasury. 2005. "Cost Benefit Analysis Primer." Business Analysis Team. New Zealand.
- Niklitschek, Mario and Javier Leon. 1996. "Combining Intended Demand and Yes/No Responses in the Estimation of Contingent Valuation Models." *Journal of Environmental Economics and Management* 31, 387-402.
- North Carolina Environmental Management Commission. 1977. "North Carolina Administrative Code." Raleigh, NC: Environmental Management Commission.

- Nunes, Paulo A.L.D., and Jeroen C.J.M. van den Bergh. 2004. "Can People Value Protection against Invasive Marine Species? Evidence from a Joint TC-CV Survey in the Netherlands." *Environmental and Resource Economics* 28: 517-532.
- O'Doherty, Richard K. 1995. "A Review of Benefit Transfer: Why and How?" *British Review of Economic Issues* 17(43): 1-15.
- O'Neil, L. Jean, Thomas Pullen Jr., and Richard L. Schroeder. 1991. "A Wildlife Community Habitat Evaluation Model for Bottomland Hardwood Forests in the Southeastern U.S. Fish and Wildlife Service. Washington, D.C.: Department of Interior.
- Ongley, Edwin D. 1998. "Modernization of Water Quality Programmes in Developing Countries: Issues of Relevancy and Cost Efficiency. *Water Quality International* Sept/Oct. 1998: 37-42.
- Opaluch, James J. and Marissa J. Mazzotta. 1992. "Fundamental Issues in Benefit Transfer and Natural Resource Damage Assessment." In *Benefit Transfer: Procedures, Problems and Research Needs. Workshop Proceedings, Association of Environmental and Resource Economists.*
- Opaluch, James J., Stephen K. Swallow, Thomas Weaver, Christopher W. Wesells, and Dennis Wichelns. 1993. "Evaluating Impacts for Noxious Facilities: Including Public Preferences in Current Siting Mechanisms." *Journal of Environmental Economics and Management* 24(1): 41-59.
- Organization for Economic Co-Operation and Development (OECD). 2009. *Managing Water for All: An OECD Perspective on Pricing and Financing.* Paris: OECD.
- Ongley, Edwin D. 2001. "Water Quality Programs in Developing Countries." *Water International* 26: 14-23.
- Orme, Bryan. 2005. *Getting Started with Conjoint Analysis: Strategies for Product Design and Pricing Research.* Madison, Wisconsin: Research Publishers LLC.
- Othman, Jamal, Jeff Bennett, and Russell Blamey. 2004. "Environmental Values and Resource Management Options: A Choice Modeling Experience in Malaysia." *Environment and Development Economics* 9: 803-824.
- Ott, Wayne R. 1995. *Environmental Statistics and Data Analysis.* Boca Raton: CRC Press, Inc.
- Paffenberger, Roger C. and James H. Patterson. 1987. *Statistical Methods for Business Economics.* 3rd ed. Homewood, IL: Irwin.
- Palaniappan, Meena, Heather Cooley, Peter H. Gleick, and Gary Wolff. 2007. "Water Infrastructure and Water-related Services: Trends and Challenges Affecting Future Development." Chapter 4 in *Infrastructure to 2030 – Vol. 2: Mapping Policy for Electricity, Water and Transport.* Organisation for Economic Co-Operation and Development (OECD). Paris: OECD.

- Palmquist, Raymond B. Palmquist. 2005. "Property Value Models." In *Handbook of Environmental Economics*, Volume 2, K. G. Maler and J. R. Vicent (Editors). Elsevier B.V.
- Pannel, David J. and Steven G.M. Schilizzi. 2009. *Economic and the Future: Time and Discounting in Private and Public Decision Making*. Paperback edition. Edward Elgar Publishing.
- Park, Chen Su. 2003. "The Robustness of Hierarchical Bayes Conjoint Analysis under Alternative Measurement Scales." *Journal of Business Research* Volume 57 Issue 10: 1092-1097.
- Parkinson, Jonathan and Kelvin Tayler. 2003. "Decentralized wastewater management in peri-urban areas in low income countries." *Environment and Urbanization* Vol. 15, No. 1.
- Parliamentary Office of Science and Technology. 2002. "Access to Water in Developing Countries." Number 178. UK: Parliamentary Office of Science and Technology.
- Parsons, George R. 2003. "The Travel Cost Model." In *A Primer on Nonmarket Valuation* Patricia A. Champ, Kevin J. Boyle and Thomas C. Brown (Editors). Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Parsons, George R., and Mary Jo Kealy. 1995. "A Demand Theory of Number of Trips in a Random Utility Model of Recreation." *Journal of Environmental Economics and Management* 29: 357-367.
- Pashardes, Panos, Anastasios Xepapadeas, and Timothy Swanson. 2002. *Current Issues in the Economics of Water Resource Management*. Economy and Environment Series. New York: Springer Verlag New York, LLC.
- Pattanayak, Subhrendu K. 2001. "How green are these valleys? Combining Revealed and Stated Preference Methods to Account for Ecosystem Costs of Deforestation." Working Paper 01_02 RTI International.
- Pattanayuk, Subhrendu K., and George Van Houten. 2003. "Measuring the Benefits of Safe Drinking Water Act: A Framework for Combining CV and Averting Behavior Data." Research Triangle Institute.
- Pattanayuk, Subhrendu K., Jui-Chen Yang, Dale Whittington, and K.C. Bal Kumar. 2005. "Coping with Unreliable Public Water Supplies: Averting Expenditures by Households in Kathmandu, Nepal." *Water Resources Research* 41 (W02012).
- Pattanayak, Subhrendu K., V. Kerry Smith, and George L. Van Houtven. 2003. "Valuing Environmental Health Risks: From Preference Calibration to Estimation." Working Paper 03_04, Research Triangle Institute.
- Pattanayak, Subhrendu K. and John C. Whitehead. 2009. "Joint Estimation of Revealed and Stated Preference Averting Behavior: An Application to Improved Municipal Water Supply in Kathmandu, Nepal." Unpublished.
- Pawitan, Yudi, 2001. In *All Likelihood Modeling and Inference Using the Likelihood*. New York: Oxford University Press.

- Payment, Pierre and Paul R. Hunter. 2001. "Endemic and epidemic infectious intestinal disease and its relationship to drinking water." In *Water Quality: Guidelines, Standards, and Health*. Lorna Fewtrell and Jaime Bartram (Editors). London, UK: IWA Publishing.
- Pearce, David and Kerry R. Turner. 1990. *Economics of Natural Resources and the Environment* New York: Harvester Wheatsheaf.
- Pearce, David W., Dale Whittington, Steven Georgiou, and David James. 1994. *Project and Policy Appraisal: Integrating Economics and Environment* Organization for Economic Co-Operation and Development. Paris.
- Pearce, David. 1998. "Cost-Benefit Analysis and Environmental Policy." *Oxford Review of Economic Policy* Vol. 14, No. 4, pp. 84-100.
- Pearce, David, Giles Atkinson, and Susana Mourato. 2006. *Cost-Benefit Analysis and the Environment: Recent Developments* Organization for Economic Co-operation and Development (OECD). Paris.
- _____. 1986. *Cost-Benefit Analysis*. 2nd Edition. MacMillan.
- Perman, Alan. 1994. "The Use of Stated Preference Methods in the Evaluation of Environmental Change." In *Valuing the Environment: Methodological and Measurement Issues*. Rüdiger Pethig (Editor). Dordrecht, The Netherlands: Kluwer.
- Pei-Ing, Wu and Chu-Li Huang. 2001. "Actual Averting Expenditure Versus Stated Willingness to Pay." *Applied Economics* 33: 277-283.
- Pekelman, Dov, and Subrata K. Sen. 1979. "Measurement and Estimation of Conjoint Utility Functions." *Journal of Consumer Research* Vol. 6: 263-271.
- Perry, James and Elizabeth Vanderklein. 1996. *Water Quality: Management of a Natural Resource*. Cambridge, MA: Blackwell Science.
- Persky, Joseph. 2001. "Retrospectives: Cost-Benefit Analysis and the Classical Creed." *Journal of Economic Perspectives* Vol. 15, No. 4 (Autumn 2001), pp. 199-208.
- Perman, Roger, Yue Ma and James McGilvray. 1996. *Natural Resources & Environmental Economics*. New York: Longman Limited.
- Pezzey, John C. V. and Michael A. Toman. 2002. "The Economics of Sustainability: A Review of Journal Articles." Discussion Paper 02-03. Washington, D.C.: Resources for the Future.
- Picke, Hal B., Andrew C. Rucks, and Renee Sisson. 1973. *The Economic Benefits of Abating Pollution in the Steel, Textile, and Paper Industries in Alabama*. Auburn, IL: Water Resources Research Institute.
- Piper, Steven, and Wade E. Martin. 2001. "Evaluation the Accuracy of the Benefit Transfer Method: A Rural Water Supply Application in the USA." *Journal of Environmental Management* 63: 223-235.
- Philip, Lorna J. and Douglas MacMillan. 2005. "Exploring Values, Context and Perceptions in Contingent Valuation Studies: The CV Market Stall Technique and Willingness to Pay for Wildlife Conservation." *Journal of Environmental Planning and Management* Vol. 48, No. 2: 257-274.

- Plottu, Eric and Beatrice Plottu. 2007. "The Concept of Total Economic Value of Environment: A Reconsideration within a Hierarchical Rationality." *Ecological Economics* 61: 52-61.
- Poe, Gregory L., Kelly L. Giraud, and John B. Loomis. 2001. "Simple Computational Methods for Measuring the Difference of Empirical Distributions: Application to Internal and External Scope Tests in Contingent Valuation." Selected Paper AAEA/AERE Summer Meeting, Long Beach, CA.
- _____. 2005. "Computational Methods for Measuring the Difference of Empirical Distributions." *American Journal of Agricultural Economics* 87(2): 353-365.
- Pohl, Gerhard, and Dubravko Mihajek. 1991. "Uncertainty and the Discrepancy between Rate-of-Return Estimates at Project Appraisal and Project Completion." Office of the Senior Vice President, Operations, WPS 761. Washington, D.C.: The World Bank.
- Pollard, J. H. 1977. *A Handbook of Numerical and Statistical Techniques*. New York: Cambridge University Press.
- Pollard Simon J. 2007. *Risk Management for Water and Wastewater Utilities*. London: IWA Publishing.
- Pontius, Frederick. 2003. *Drinking Water Regulation and Health*. Wiley, John & Sons, Incorporated.
- Porter, Richard C. 1996. *The Economics of Water and Waste: A Case Study of Jakarta, Indonesia*. Avebury, Aldershot, England.
- Portney, Paul R. 1994. "The Contingent Valuation Debate: Why Economists Should Care." *Journal of Economic Perspectives* Volume 8, Number 4, pp. 3-17.
- Porto, Monica. 1998. "The Brazilian Water Law: A New Level of Participation and Decision Making." *International Journal of Water Resources Development* 14(2): 175-182.
- Pouliquen, Louis Y. 1970. *Risk Analysis in Project Appraisal*. Baltimore: The Johns Hopkins Press.
- Powell, James L. 1994. "Estimation of Semiparametric Models." Chapter 41 in *Handbook of Econometrics*, Volume IV Engle, R.F. and D. L. McFadden (Editors). Elsevier Science B.V.
- Powers, Terry A. 1980. "The Role of Indirect Effects in the Economic Analysis of Projects." *Papers on Project Analysis*, No. 11. Economic and Social Development Department. Washington, D.C.: Inter-American Development Bank.
- Quiggin, John. February 1998. "Individual and Household Willingness to Pay for Public Goods." *American Journal of Agricultural Economics* 80, pp. 58-63.
- Raftery, John. 1993. *Risk Analysis in Project Management*. London: Routledge, Chapman and Hall.

- Rambaud, Salvador Cruz and María José Muñoz Torrecillas. 2006. "Social Discount Rate: A Revision." *Anales de Estudios Económicos y Empresariales* Vol. XVI: 75-98.
- Randall, Alan. 1988. "A Camel is a Camel is..." in *Amenity Resource Valuation: Integrating Economics with other Disciplines*. George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College: Ventura Publishing, Inc.
- _____. 1994. "A Difficulty with the Travel Cost Method." *Land Economics* 70: 88-96.
- _____. 1997. "The NOAA Panel Report: A New Beginning or the End of an Era?" *American Journal of Agricultural Economics* 79, pp. 1489-1494.
- Raz, T. and E. Michael. January 2001. "Use and Benefits of Tools for Project Risk Management." *International Journal of Project Management*. Vol. 19 No. 1, pp. 9-17.
- Ready, Richard C. and Dayuan Hu. November 1995. "Statistical Approaches to the Fat Tail Problem for Dichotomous Choice Contingent Valuation." *Land Economics* 71 (4): 491-99.
- Ready, Richard C., Jānis Malzubris, and Silva Senkane. 2002. "The Relationship Between Environmental Values and Income in Transition Economy: Surface Water Quality in Latvia." *Environment and Development Economics* 7: 147-156.
- Repetto, Robert. 1987. "The Policy Implications of Non-convex Environmental Damages: A Smog Control Case Study." *Journal of Environmental Economics and Management* Vol. 14(1), pp. 13-29.
- Reutlinger, S. 1970. "Techniques for Project Appraisal under Uncertainty." *World Bank Occasional Paper No. 10*. Baltimore: Johns Hopkins Press.
- Revenga, Carmen, Jake Brunner, Norbert Henninger, Ken Kassem, and Richard Payne. 2000. *Pilot Analysis of Global Ecosystems: Freshwater Systems*. Washington, D.C.: World Resources Institute.
- Rodriguez, Diego. May 1998. "Estimating Willingness To Pay from Referendum Models: Some Empirical Issues." *Environment Division Background Paper*. Washington, D.C.: Inter American Development Bank.
- _____. 1998. "The Evolution of the Travel Cost Method: The Single Site Approach." *Technical Paper*. N.p. Washington, D.C.
- _____. August 1998. "Assessing the Benefits of Groundwater: A Cost-Benefit Analysis Approach." Unpublished.
- _____. 2000. "Cost-Benefit Analysis of Environmental Quality Improvement Projects: Uncertain Benefits of Willingness to Pay from Referendum Contingent Valuation." *Masters of Arts Thesis*. Virginia Polytechnic Institute and State University. Blacksburg: Virginia.
- Roe, Brian, Kevin J. Boyle, and Mario Teisl. 1996. "Using Conjoint Analysis to Derive Estimates of Compensating Variation." *Journal of Environmental Economics and Management* 31: 145-159.

- Rolfe, John, and Jeff Bennett. 2006. *Choice Modelling and the Transfer of Environmental Values (New Horizons in Environmental Economics)* Edward Elgar Publishing.
- Rosado, Marcia A., Maria A. Cunha-E-Sa, Maria M. Ducla-Soares, and Luis C. Nunes. 2006. "Combining Averting Behavior and Contingent Valuation Data: An Application to Drinking Water Treatment in Brazil." *Environment and Development Economics* 11: 729-746.
- Rosenberger, Randall S., and Tim T. Phipps. 2002. "Site Correspondence Effects in Benefit Transfers: A Meta-Analysis Transfer Function." Research Paper 2001-6 (revised 9/12/02). West Virginia University.
- Rosenberger, Randall S., and John B. Loomis. 2001. "Benefit Transfer of Outdoor Recreation Use Values: A Technical Document Support the Forest Service Strategic Plan (2000 revision). Gen. Tech. Rep. RMRS-GTR-72. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.
- _____. 2003. "Benefit Transfer." In *A primer on Nonmarket Valuation* Patricia A. Champ, Kevin J. Boyle, and Thomas G. Brown (Editors). Dordrecht, The Netherlands: Kluwer Academic Press.
- Royer, Paul S. March 2000. "Risk Management: The Undiscovered Dimension of Project Management." *Project Management Journal*. Vol. 31 No. 1, pp. 6-13.
- Russell, Clifford S., William J. Vaughan, Christopher D. Clark, Diego J. Rodriguez, and Arthur H. Darling. 2001. "Investing in Water Quality: Measuring Benefits, Costs and Risks." Washington, D.C.: Inter-American Development Bank.
- Russell, Clifford S., Christopher D. Clark, William J. Vaughan, Arthur Darling, and Diego J. Rodriguez. 1999. "The Economic Analysis of Water Quality Improvement Investments: A Good Practice Paper". Technical Paper, Environment Division, Sustainable Development Department. Washington D.C.: Inter American Development Bank.
- Russell, Clifford S. 1995. "Old Lessons and New Contexts in Economic-Ecological Modeling," in *Integrating Economics and Ecological Modeling: Practical Methods for Environmental Policy Analysis*, J. W. Milon and J. F. Shogren, eds. Westport, CT: Praeger.
- _____. 2001. *Applying Economics to the Environment*. New York, NY: Oxford University Press.
- Russell, Clifford S., and Christopher D. Clark. 1997. "Valuing 'Respectable' Benefit Estimates – Or How Far Are you Willing to Go to Avoid Asking Hypothetical Questions?" *Water Resources Update* 109, pp. 42-48.
- Sadoff, Claudia W. 1996. "The Price of Dirty Water: Pollution Control Costs in the Sebou Basin." Paper No. 038, Environmental Economics Series. Pollution and Environmental Economics Division. Washington, D.C.: The World Bank.

- Sagoff, Mark. 1988. *The Economy of the Earth*. Cambridge: Cambridge University Press.
- Samir Sayadi, M. Carmen Gonzalez Roa, and Javier Calatrava Requena. 2005. "Ranking Versus Scale Rating in Conjoint Analysis: Evaluating Landscapes in Mountainous Regions in Southeastern Spain." *Ecological Economics* 55: 539-550.
- Sandström, Mikael. 1996. "Recreational Benefits from Improved Water Quality: A Random Utility Model of Swedish Seaside Recreation." Working Paper No. 121. The Economics Research Institute. Stockholm School of Economics. Stockholm, Sweden.
- Sang, Heng-Kang. 1988. *Project Evaluation: Techniques and Practices for Developing Countries*. New York: Wilson Press.
- San Martin, Orlando. 2002. "Water Resources in Latin America and the Caribbean: Issues and Options." Paper presented at the Inter-American Development Bank's Annual Meeting held in Fortaleza, Brazil, March 7, 2002.
- Sanz, José Angel, Luis César Herrero, and Ana María Bedate. 2003. "Contingent Valuation and Semiparametric Methods: A Case Study of the National Museum of Sculpture in Valladolid, Spain." *Journal of Cultural Economics* 27: 241-257.
- Sasikumar, K, and P.P. Mujumdar. 1998. "Fuzzy Optimization Model for Water Quality Management of a River System." *Journal of Water Resources Planning and Management*, Vol. 124 (2), pp. 79-88.
- Savedoff, William D. 1994. "A Review of Indicators Used in Economic Analysis of Projects: Strengths, Weaknesses, and Cautionary Tales." Working Paper Series No. 107-94. Project Advisory Unit, Project Analysis Department. Washington, D.C.: Inter-American Development Bank.
- Savvides, Savvakis C. 1994. "Risk Analysis in Investment Appraisal." *Project Appraisal*. Vol. 9, No. 1, pp. 3-18.
- Scarpa, Riccardo and Anna A. Alberini. 2005. *Application of Simulation Methods in Environmental and Resource Economics*. Netherlands: Springer.
- Schilizzi, Steven G.M. 2006. "Discounting the Distant Future: Why so many Voices and so Little Consensus?" In *Economics and the Future: Time and Discounting in Private and Public Decision Making*. David J. Pannell and Steven G.M. Schilizzi (Editors). Cheltenham: Edward Elgar Publishing.
- Schmidt, Charles W. 2003. "Subjective Science: Environmental Cost-Benefit Analysis." *Environmental Health Perspectives* Vol. 111.
- Schroeder, Herbert W., and John F. Dwyer. 1988. "Overview: Gains, Losses, and Contingent Valuation." in *Amenity Resource Valuation: Integrating Economics with other Disciplines*. George L. Peterson, B.L. Driver, and Robin Gregory, eds. State College: Ventura Publishing, Inc.

- Seller, Christine J., John R. Stoll, and Jean-Paul Chavas. 1985. "Validation of Empirical Measures of Welfare Change: A Comparison of Nonmarket Techniques." *Land Economics* 61: 156-175.
- Seller, Christine, Jean-Paul Chavas, and John R. Stoll. 1986. "Specification of the Logit Model: The Case of Valuation for Nonmarket Goods." *Journal of Environmental Economics and Management* 13: 382-390.
- Sen, Amartya. 2000. "The Discipline of Cost-Benefit Analysis." *Journal of Legal Studies* Vol. 29, No. 2 (June 2000), pp. 931-952.
- Serret, Ysé and Nick Johnstone. 2006. *The Distributional Effects of Environmental Policy*. Organisation for Economic Co-operation and Development (OECD). Cheltenham, UK: Edward Elgar Publishing, Limited.
- Sharma, Saroj K., and Kala Vairavomoorthy. 2008. "Urban Water Demand Management: Prospects and Challenges for the Developing Countries." *Water and Environment Journal* July 2008.
- Shaw, Douglass W. 1992. "Searching for the Opportunity Cost of an Individual's Time." *Land Economics* 61(1): 107-115.
- Shavell, Steven. 1993. "Contingent Valuation of the Nonuse Value of Natural Resources: Implications for Public Policy and the Liability System." In *Contingent Valuation: A Critical Assessment*. J. A. Hausman (Editor). Elsevier Science Publishers B.V.
- Shyamsundar, Priya, and Randall Kramer. 1993. "Does Contingent Valuation Work in Non-Market Economies?" Paper presented at the Annual U.S. Department of Agriculture W-133 Meeting. Washington, D.C.
- Simons, Robert A., and Kimberly Winson-Geideman. 2005. "Determining Market Perceptions on Contamination of Residential Property Buyers Using Contingent Valuation Surveys." *Journal of Real Estate Research* Vol. 27, No. 2: 193-220.
- Smith, V. Kerry. 1988. "Travel Cost Recreation Demand Methods: Theory and Implementation." Discussion Paper Q89-03. Quality of the Environment Division. Washington, D.C.: Resources for the Future.
- _____. 1992. "On Separating Defensible Benefit Transfers from "Smoke and Mirrors"". *Water Resources Research* 28(3): 685-94.
- _____. 1994. "Lightning Rods, Dart Boards, and Contingent Valuation." *Natural Resources Journal*. Vol. 34, pp. 121-152.
- _____. 1996. "Pricing what is Priceless: A Status Report on Non-Market Valuation of Environmental Resources." Unpublished Report.
- _____. 1997. "Time and the Valuation of Environmental Resources." Discussion Paper 98-07. Washington, D.C.: Resources for the Future.
- _____. 2005. "Fifty Years of Contingent Valuation." In *International Yearbook of Environmental and Resource Economics 2004/2005: A Survey of Current Issues* (New Horizons in Environmental Economics Tom Tietenberg and Henk Folmer (Editors). Cheltenham, UK: Edward Elgar Publishing.

- Smith, V. Kerry and William H. Desvousges. 1986. *Measuring Water Quality Benefits*. Boston, MA: Kluwer-Nijhof.
- _____. 1989. "Measuring Water Quality Benefits." *Southern Economic Journal* Vol. 55, No. 3 (January 1989), pp. 799-800.
- Smith, V. Kerry, and Clifford S. Russell. 1990. "Demands for Data and Analysis Induced by Environmental Policy," in *Fifty Years of Economic Measurement: The Jubilee of the Conference on Research in Income and Wealth*, E.R. Berndt and J.E. Triplett, eds. Chicago: University of Chicago Press.
- Smith V. Kerry, and Y. Kaoru. 1990. "Signals or Noise? Explaining the Variation in Recreation Benefit Estimates." *American Journal of Agricultural Economics* 72(2): 419-433.
- Smith V. Kerry, and Laura Osborne. 1996. "Do Contingent Valuation Estimates Pass a 'Scope' Test? A Meta Analysis." *Journal of Environmental Economics and Management* 31(3): 287-301.
- Smith, V. Kerry, George Van Houtven, and Subhrendu K Pattanayuk. 1999. "Benefit Transfer as Preference Calibration." Discussion Paper 99-36. Washington, D.C.: Resources for the Future.
- _____. 2002. "Benefit Transfer via Preference Calibration: "Prudential Algebra" for Policy." *Land Economics* 78(1): 132-152.
- Smith, V. Kerry, George L. Van Houtven, Subhrendu Pattanayak, and Tayler H. Bingham. 2000. "Improving the Practice of Benefit Transfer: A Preference Calibration Approach." Interim Final Report. RTI Project Number 6741-300-303. EPA Contract Number 68-C6-0021. Prepared for U.S. Environmental Protection Agency, Office of Water, Office of Policy, Economics and Innovation. Washington, D.C.
- Songer, Anthony D., James Dickmann, and Roger S. Pecsok. 1997. "Risk Analysis for Revenue Dependent Infrastructure Projects." *Construction Management and Economics* Vol. 15, Issue 4: 377-382.
- Soutukorva, Asa. 2005. "The Value of Improved Water Quality: A Random Utility Model of Recreation in the Stockholm Archipelago." Beijer International Institute for Ecological Economics. Stockholm, Sweden: The Royal Swedish Academy of Sciences.
- Spash, Clive L. 2007. "Deliberative Monetary Valuation (DMV): Issues in Combining Economic and Political Processes to Value Environmental Change." *Ecological Economics* 63: 690-699.
- _____. 2008. "Deliberative Monetary Valuation and the Evidence for a New Value Theory." *Land Economics* 84(3): 469-488.

- Spofford, Walter O., Jr. 1991. "Strategic Planning for Regional Environmental Quality Management: An Economic Framework for Analysis." Annex 6 in China Environmental Strategy Paper. Environment, Human Resources and Urban Development Operations Division, China and Mongolia Department, Asia Region. The World Bank. Washington, D.C.
- Spofford, Walter O., Jr., Clifford S. Russell, and Robert Kelly. 1976. Environmental Quality Management: An Application to the Lower Delaware Valley. Washington, D.C.: Resources for the Future.
- Sprent, Peter. 1988. Taking Risks: The Science of Uncertainty. New York: Penguin.
- Spulber, Nicolas, and Asghar Sabbaghi. 1994. Economics of Water Resources: From Regulation to Privatization. Boston, MA: Kluwer.
- Squire, Lyn and Herman G. van der Tak. 1975. Economic Analysis of Projects. Baltimore: The Johns Hopkins University Press.
- Stær, Karsten. 2006. "Risk and Uncertainty in Cost Benefit Analysis: Toolbox Paper." Copenhagen: Environmental Assessment Institute.
- Stavins, Robert. 1984. The Tuolumne River: Preservation or Development? An Economic Assessment. Berkeley, CA: Environmental Defense Fund.
- Stavins, Robert N., Alexander F. Wagner, and Gernot Wagner. 2002. "Interpreting Sustainability in Economic Terms: Dynamic Efficiency Plus Intergenerational Equity." Discussion Paper 02-29. Washington, D.C.: Resources for the Future.
- Stevens, Barrie, and Perre-Alain Schieb. 2007. "Infrastructure to 2030: Main Findings and Policy Recommendations." Chapter 1 in Infrastructure to 2030 – Vol. 2: Mapping Policy for Electricity, Water and Transport. Organisation for Economic Co-Operation and Development (OECD). Paris: OECD.
- Stockholm International Water Institute (SIWI). 2004. "Making Water a Part of Economic Development: The Economic Benefits of Improved Water Management and Services." Report commissioned by the Government of Norway and Sweden as input to the Commission on Sustainable Development (CSD) and its 2004-2005 focus on water, sanitation and related issues. Stockholm, Sweden.
- Stoker, Thomas M. 1986. "Consistent Estimation of Scaled Coefficients." *Econometrica* Vol. 54, No. 6: 1461-1481.
- Sunstein, Cass R. 2000. "Cognition and Cost-Benefit Analysis." *Journal of Legal Studies* Vol. 29, No. 2 (June 2000), pp. 1059-1103.
- Taylor, Laura O. 2003. "The Hedonic Method." In Champ, Patricia A., Kevin J. Boyle and Thomas C. Brown (Editors). *A Primer on Nonmarket Valuation* Dordrecht: Kluwer Academic Publishers.

- Taylor III, Bernard W., K. Roscoe Davis, and Ronald M. North. 1975. "Approaches to Multiobjective Planning in Water Resource Projects." *Journal of the American Water Resources Association* Volume 11, Issue 5: 999-1008.
- Taylor, Bernard W., and Ronald M. North. 1976. "The Measurement of Economic Uncertainty in Public Water Resource Development." *American Journal of Agricultural Economics* 58: 636-643.
- Terawaki, Taku. 2003. "Second Nonparametric Approach for Double-Bounded Dichotomous Choice Contingent Valuation." Discussion Paper No. 02005, College of Economics, Ritsumeikan University: Japan.
- Tietênberg, Tom. 1996. *Environmental and Natural Resource Economics*. New York: HarperCollins Publishers, Inc.
- Thomann, Robert V. 1971. *System Analysis and Water Quality Management*. New York: Environmental Research and Applications, Inc.
- Thompson, Dale V. 1999. "Beyond Benefit-Cost Analysis: Institutional Transaction Costs and Regulation of Water Quality." *Natural Resources Journal* Vol. 39, pp. 517-541.
- Tol, Richard S.J. 2003. "On dual-Rate Discounting." *Economic Modelling* 21: 95-98.
- Tomkins, Judith M., and J. A. Butlin. 2008. "A Theoretical and Empirical Approach to Fisheries Economics." *Journal of Agricultural Economics* Volume 26, Issue 1: 105-125.
- Trager, Christian P. 2007. "Sustainability, Limited Substitutability and Non-Constant Social Discount Rates." Department of Agricultural and Resource Economics Working paper 1045. University of California at Berkeley.
- Train, Kenneth E. 2003. *Discrete Choice Methods with Simulation* Cambridge, UK: Cambridge University Press.
- Tresch, Richard W. 2002. *Public Finance, A Normative Theory*. Second Edition. Academic Press.
- Triantaphyllou, Evangelos. 2000. *Multi-Criteria Decision-Making Methods: A Comparative Study*. Dordrecht: The Netherlands: Kluwer Academic Publishers.
- Turnbull, B.W. 1974. "Nonparametric Estimation of Survivorship Function with Doubly Censored Data." *Journal of the American Statistical Association* Vol. 69: 169-173.
- _____. 1976. "The Empirical Distribution Function with Arbitrarily Grouped, Censored, and Truncated Data." *Journal of the Royal Statistical Society B* Vol. 38: 290-295.
- Turner, R. K., I.J. Bateman, and W.N. Adger, Editors. 2001. *Economics of Coastal and Water Resources: Valuing Environmental Functions*. Dordrecht, The Netherlands: Kluwer Academic Publishers.

- Ugur, Mehmet. 2005. "Risk, Uncertainty, and Probabilistic Decision Making in an Increasingly Volatile World." *Handbook of Business Strategy* Volume 6, Issue 1: 19-24.
- Ujang, Zini, and Mogens Henze (Editors). 2006. *Municipal Wastewater Management in Developing Countries: Principles and Engineering*. London: IWA Publishing.
- _____. 2006. "Sustainable Sanitation for Developing Countries." In *Municipal Wastewater Management in Developing Countries: Principles and Engineering*. Ujang, Zini and Mogens Henze (Editors). London: IWA Publishing.
- U.S. Environmental Protection Agency (EPA). 1976. *Quality Criteria for Water*. Washington, D.C.: U.S. Environmental Protection Agency.
- U.S. Water Resources Council. 1983. *Economic and Environmental Principles and Guidelines for Water and Related Land Resources Implementation Studies*. Washington, D.C.
- UK Office of Government Commerce (OGC). 2002. *Management of Risk – Guidance for Practitioners*. London, UK: The Stationery Office.
- United Nations (UN). 1992. *Nations of the Earth Report: United Nations Conference on Environment and Development*. New York: United Nations.
- _____. 2003. *Water for People, Water for Life: The United Nations World Development Report*.
- _____. 2006. *Water: A Shared Responsibility: The United Nations World Water Development Report 2. World Water Assessment Program*. Paris: UNESCO.
- _____. 2009. *The United Nations World Water Development Report 3: Water in a Changing World. World Water Assessment Program*. Paris: UNESCO.
- United Nations Development Program (UNDP). 2007. *Human Development Report 2007/2008: Fighting Climate Change in a Divided World*. New York: Palgrave MacMillan.
- United Nations Environment Programme Global Environment Monitoring System (UN/GEMS)/Water Program. N.d. "Water Quality Outlook." Ontario: UN/GEMS.
- United States Environmental Protection Agency (USEPA). 2000. *Guidelines for Preparing Economic Analysis*. Washington, D.C.: United States Environmental Protection Agency.
- _____. 2008. *Clean Watersheds Needs Survey 2004: Report to Congress*. Washington, D.C.: United States Environmental Protection Agency.
- United States Geological Survey (USGS). 1978. "Water-Quality Indices for Specific Water Uses." Circular 770. Washington, D.C.: USGS.

- Vajjhala, Shalini P., Anna Mische John, and David A. Evans. 2008. "Determining the Extent of Market and Extent of Resource for Stated Preference Survey Design Using Mapping Methods." Discussion Paper 08-14. Washington, D.C.: Resources for the Future.
- Van Damme, Hans. 2001. "Domestic Water Supply, Hygiene, and Sanitation." Focus 9, Brief 3 of 14. Washington, D.C.: International Food Policy Research Institute.
- Van der Straaten, Jan. 1998. "Challenges and Pitfalls of Cost-Benefit Analysis in Environmental Issues." *Indian Journal of Applied Economics* Vol. 7, No. 3 (July/September 1998), pp. 323-346.
- Van Pelt, Michiel J. F. 1993. *Ecological Sustainability and Project Appraisal*. Aldershot, England: Avebury.
- Varian, Hal R.. 1982. "The Nonparametric Approach to Demand Analysis." *Econometrica* Vol. 50, No. 4: 945-973.
- _____. 1983. "Nonparametric Tests of Consumer Behavior." *Review of Economic Studies* 50: 945-973.
- _____. 1992. *Microeconomic Analysis*. Third Edition. New York: W. W. Norton & Company, Inc.
- _____. 2005. "Revealed Preference." Paper prepared for prepared for Samuelsonian Economics and the 21st Century". University of California at Berkeley.
- Vaughan, William J., and Clifford S. Russell. *Freshwater Recreational Fishing: The National Benefits of Water Pollution Control* Washington, D.C.: Resources for the Future.
- Vaughan, William J. 1988. "Empirical Issues in the Estimation of Hedonic Rent or Property Value Equations and their use in Prediction." Operations Evaluation Office Working Paper OEO/WP-02/88. Inter-American Development Bank. Washington, D.C.
- Vaughan, William J., and Diego J. Rodriguez. 2001. "Obtaining Welfare Bounds in Referendum Contingent Valuation Studies: Comment." *Land Economics* 77(3), pp. 457-465.
- Vaughan, William J., and Arthur D. Darling. 2000. "The Optimal Sample Size for Contingent Valuation Surveys: Applications to Project Analysis." Environment Division Technical Study ENV-136. Washington, D.C.: Inter-American Development Bank.
- Vaughan, William J., and Diego J. Rodriguez. 2000. "A Note on Obtaining Welfare Bounds in Referendum Contingent Valuation Studies." Unpublished working paper, Inter-American Development Bank. Washington, D.C.
- Vaughan, William J., Clifford S. Russell, Diego J. Rodriguez, and Arthur H. Darling. 1999. "Willingness to Pay: Referendum Contingent Valuation and Uncertain Project Benefits". Environment Division Technical Paper ENV-130. Washington, D.C.: Inter-American Development Bank.

- Vaughan, William J., and Sergio Ardila. 1993. "Economic Analysis of the Environmental Aspects of Investment Projects." Environment Protection Division. Working Paper ENP-100. Washington, D.C.: Inter-American Development Bank.
- Veisten, Knut. 2007. "Contingent Valuation Controversies: Philosophic Debates about Economic Theory." *The Journal of Socio-Economics* Vol. 36, Issue 2: 204-232.
- Veisten, Knut and Ståle Navrud. 2003. "Contingent Valuation and Actual Payment for Voluntarily Provided Passive-Use Values: Assessing the Effect of an Induced Truth-Telling Mechanism and Elicitation Formats." N.p. Norway.
- Venkatachalam, L. 2004. "The Contingent Valuation Method: A Review." *Environmental Impact Assessment Review* 24: 89-124.
- Viscusi, Kip W. 2004. "The Value of Life: Estimates with Risks by Occupation and Industry." *Economic Inquiry* 42(1): 29-48.
- Viscusi, Kip W., Joel Huber, and Jason Bell. 2008. "The Economic Value of Water Quality." *Environmental and Resource Economics* 41: 169-187.
- _____. 2008. "Estimating Discount Rates for Environmental Quality from Utility-Based Choice Experiments." *The Journal of Risk and Uncertainty* 37: 199-220.
- Viscusi, W. Kip, and Joseph E. Daly. 2003. "The Value of a Statistical Life: A Critical Review of Market Estimates Throughout the World." *The Journal of Risk and Uncertainty* 27; 1: 5-76.
- Viscusi, Kip W., Wesley Magat, and J. Huber. 1991. "Pricing Environmental Health Risks: Survey Assessments of Risk-Risk and Risk-Dollar Trade-Offs for Chronic Bronchitis." *Journal of Environmental Economics and Management* 21(1): 32-51.
- Von Haefen, Roger H., and Daniel J. Phaneuf. 2008. "Identifying Demand Parameters in the Presence of Unobservables: A Combined Revealed and Stated Preference Approach." *Journal of Environmental Economics and Management* 56: 19-32.
- Vorosmarty, C. J., P. Green, J. Salisbury and R. B. Lammers. 2000. "Global Water Resources: Vulnerability from Climate Change and Population Growth." *Science*, 289, 284 - 288.
- Vose, David. 1996. *Quantitative Risk Analysis: A Guide to Monte Carlo Simulation Modelling*. New York: John Wiley & Sons, Inc.
- _____. 2008. *Risk Analysis: A Quantitative Guide* 3rd Edition. Wiley.
- Vossler, Christian A., and Joe Kerkvliet. 2003. "A Criterion Validity Test of the Contingent Valuation Method: Comparing Hypothetical and Actual Voting Behavior for a Public Referendum." *Journal of Environmental Economics and Management* 45: 631-649.

- Vossler, Christian A., Robert G. Ethier, Gregory L. Poe, and Michael P. Welsh. 2003. "Payment Certainty in Discrete Choice Contingent Valuation Responses: Results from a Field Validity Test." *Southern Economic Journal* Vol. 69.
- Walker, D., and Ja Fox-Rushby. 2001. "Allowing for Uncertainty in Economic Evaluations: Qualitative Sensitivity Analysis." *Health Policy and Planning* 16(4): 435-443.
- Walsh, Richard G., Donn M. Johnson, and John R. McKean. 1992. "Benefit Transfer of Outdoor Recreation Demand Studies, 1968-1988." *Water Resources Research* 28(3): 707-13.
- Wang, Hua, Jian Xie, and Honglin Li. 2008. "Domestic Water Pricing with Household Surveys: A Study of Acceptability and Willingness to Pay in Chongqing, China." Policy Research Working Paper 4690. Development Research Group. Sustainable Rural and Urban Development Team. Washington, D.C.: The World Bank.
- Ward, Frank A. and Diana Beal. 2000. *Valuing Nature with Travel Cost Models: A Manual* Chletenham, UK: Edward Elgar Publishing Limited.
- Ward Stephen and Chris Chapman. 2003. "Transforming project risk management into project uncertainty management." *International Journal of Project Management* 21 pp. 97-105.
- Ward, Stephen C. 1999. "Assessing and Managing Important Risks." *International Journal of Project Management* 17 No. 6, pp. 331-336.
- Ward, William A., and Barry J. Deren, with Emmanuel H. D'Silva. 1991. *The Economic Analysis of Project Analysis: A Practitioner's Guide*. EDI Technical Materials. Economic Development Institute of the World Bank. Washington, D.C.: The World Bank.
- Water Resources Council Special Task Force. 1969. *Procedures for Evaluation of Water and Related Land Resource Projects*. Report to the Water Resources Council by the Special Task Force. Washington, D.C.: Water Resources Council.
- Wattage, Premachandra M. (n.d.). "Contingent Valuation: Estimation of Benefits of Water Quality Improvement," in *Integrating Environmental Assessment and Socioeconomic Appraisal in the Development Process*. Conference Papers, Development and Project Planning Center. University of Bradford, England.
- Wattage, Premachandra, Andrew Smith, Colin Pitts, Adrian McDonald and David Kay. 2000. "Integrating Environmental Impact, Contingent Valuation and Cost-Benefit Analysis: Empirical Evidence for an Alternative Perspective." *Impact Assessment and Project Appraisal* Vol. 18(1), pp. 5-14.
- Weitzman, Martin L. 2001. "Gamma Discounting." *The American Economic Review* Vol. 91, No. 1: 260-271.

- Wellner, J. A., and Y. Zhan. 1997. "A Hybrid Algorithm for Computation of the Nonparametric Maximum Likelihood Estimator from Censored Data." *Journal of the American Statistical Association* 92: 945-959.
- Whitehead, John C., Subhrendu K. Pattanayak, George L. Van Houtven, and Brett R. Gelso. 2008. "Combining Revealed and Stated Preference Data to Estimate the Nonmarket Value of Ecological Services: An Assessment of the State of the Science." *Journal of Economic Surveys* Vol. 22, No. 5: 872-908.
- Whitehead, John C., Timothy C. Haab, and Ju-Chin Huang. 2000. "Measuring Recreation Benefits of Quality Improvements with Revealed and Stated Behavior Data." *Resource and Energy Economics* 22: 339-354.
- Whitehead, John C., Thomas J. Hoban, and George Van Houtven. 1999. "Averting Behavior and Drinking Water Quality." Department of Economics, Working Paper 9905, East Carolina University.
- Whitehead, John C. 2003. "Improving Willingness to Pay Estimates for Water Quality Improvement through Joint Estimation with Water Quality Perceptions." Department of Economics and Finance, University of North Carolina at Wilmington. Mimeo.
- Whittington, Dale, W. Michael Hanemann, Claudia Sadoff, and Marc Jeuland. 2008. "Sanitation and Water." Copenhagen Consensus 2008 Challenge Paper. Copenhagen, Denmark.
- Whittington, Dale, John Briscoe, Xinming Mu and William Barron. 1991. "Contingent Valuation: Estimating the Willingness to Pay for Housing Services: A Case Study of Water Supply in Southern Haiti." In *Housing the Poor in the Developing World: Methods of Analysis, Case Studies, and Policy*. Graham Tipple, Kenneth G. Willis (Editors). New York: Routledge.
- Whittington, Dale. 1998. "Administering Contingent Valuation Surveys in Developing Countries." *World Development* 26(1): 21-30.
- _____. 2002. "Improving the Performance of Contingent Valuation Studies in Developing Countries." *Environment and Resource Economics* 22: 323-367.
- _____. 2004. "Ethical Issues with Contingent Valuation Surveys in Developing Countries: A Note on Informed Consent and Other Concerns." *Environment and Resource Economics* 28: 507-515.
- Wildavsky, Aaron. 1966. "The Political Economy of Efficiency: Cost-Benefit Analysis, System Analysis and Program Budgeting." *Public Administration Review* Vol. 26, No. 4 (December 1966), pp. 292-310.
- Wildeman, R. Max., ed. 1992. *Project and Program Risk Management: A Guide to Managing Project Risks and Opportunities*. PA: Drexel Hill, Project Management Institute.
- Williams, Terry. W. 2002. *Modeling Complex Projects*. New York: Wiley.

- Wilman, Elizabeth A. 1980. "The Value of Time in Recreation Benefit Studies." *Journal of Environmental Economics and Management* 73(3): 272-286.
- Wilson, Matthew A., and John P. Hoehn. 2006. "Valuing Environmental Goods and Services Using Benefit Transfer: The State-of-the Art and Science." *Ecological Economics* 60: 335-342.
- Winpenny, James. 1995. *The Economic Appraisal of Environmental Projects and Policies: A Practical Guide* Organization for Economic Co-Operation and Development. Paris, France.
- World Bank. 2008. *Brazil: Country Profile*. Washington, D.C.: The World Bank.
- _____. 1993. "Chile-Managing Environmental Problems: Economic Analysis of Selected Issues." Washington, D.C.: The World Bank.
- World Business Council for Sustainable Development (WBCSD). 2006. *Water: Facts and Trends*. Switzerland: World Business Council for Sustainable Development.
- World Wildlife Fund (WWF). N.d. "Rich Countries, Poor water." Zeist, Netherlands: WWF Freshwater Program.
- Yang, Zili. 2003. "Dual-Rate Discounting in Dynamic Economic-Environmental Modeling." *Economic Modelling* 20: 941-957.
- Yasui, Shojiro. 2005. "A Critical Review of the Traditional Methodology of Cost-Benefit Analysis and a Proposed Alternative." *Human and Ecological Risk Assessment* Vol. 11, No. 2 (April 2005), pp. 411-432.
- Young-Sook, Eom and Douglas M. Larson. 2006. "Improving Environmental Valuation Estimates Through Consistent use of Revealed and Stated Preference Information." *Journal of Environmental Economics and Management* 52: 501-516.
- Young, Robert A., and S. L. Gray (with R.B. Held and R. S. Mack). 1972. "Economic Value of Water: Concepts and Empirical Estimates." Report to the U.S. National Water Commission. Publication PB 210 356. Springfield, VA: National Technical Information Services.
- Young, Robert A. 1996. "Measuring Economic Benefits for Water Investments and Policies." World Bank Technical Paper No. 338. Washington, D.C.: The World Bank.
- _____. 2005. *Determining the Economic Value of Water: Concepts and Methods*. Washington, D.C.: Resources for the Future.
- _____. 2005. "Economic Criteria for Water Allocation and Valuation." In *Cost-Benefit Analysis and Water Resources Management*. Brouwer, Roy and David Pearce (Editors). Cheltenham, UK: Edward Elgar.
- Yoshida, Kentaro and Sohei Kanai. 2007. "Estimating the Economic Value of Improvements in Drinking Water Quality Using Averting Expenditure and Choice Experiments." Discussion Paper No. 07-02. Multi-level Environmental Governance for Sustainable Development. Japan.

- Zhang, Ying, and Mostaza Jamshidian. 2004. "On Algorithms for the Non-parametric Maximum Likelihood Estimator of the Failure Function with Censored Data." *Journal of Computational and Graphics Statistics* 13(1): 123-140.
- Zhao, Jinhua and Catherine L. Kling. 2000. "Willingness-to-Pay, Compensating Variation, and the Cost of Commitment." Center for Agricultural and Rural Development. Working Paper 00-WP 251. Iowa State University.
- _____. 2002. "Environmental Valuation under Dynamic Consumer Behavior." Center for Agricultural and Rural Development. Working Paper 02-WP 262. Iowa State University.
- Zhongmin, Xu, John Loomis, Zhang Zhiqiang, Kuino Hamamura. 2006. "Evaluating the Performance of Different Willingness to Pay Question Formats for Valuing Environmental Restoration in Rural China." *Environment and Development Economics* 11: 585-601.

